

SDMS US EPA REGION V
COLOR - RESOLUTION - 3
IMAGERY INSERT FORM

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SITE NAME	SAUGET AREA 2		
DOC ID #	150798		
DOCUMENT VARIATION	<input checked="" type="checkbox"/> COLOR OR <input type="checkbox"/> RESOLUTION		
PRP			
PHASE	SAS		
OPERABLE UNITS			
LOCATION	Box #	Folder #	Subsection
PHASE (AR DOCUMENTS ONLY)	____ Remedial	____ Removal	____ Deletion Docket
	Original	Update #	Volume ____ of ____
COMMENT(S)			
SITE LOCATION MAPS			

*U.S. EPA Validated Sediment Sampling Results (10/27/00 - 11/3/00) from
the Mississippi River at the Solutia Facility Located in Sauget, IL* 150798

- The Mississippi River sediments are mainly fine and coarse sands, with fine sand sediments generally occurring within 100' of the riverbank and coarse sand found greater than 100' from the bank. Along the southern half of Site R, there is a finer silt area located between the fine and coarse sands, apparently associated with a man-made underwater structure that allows for deposition of fines.
- Higher levels of total organic carbon (TOC) are associated with the fine sands and silts located near the riverbank. TOC is very low (<120 ppm) in the coarse sands.
- The areal extent of contaminated sediments in the Mississippi River generally begins upstream near the northern boundary of Site R and extends downstream beyond the southern boundary of Site R. Contaminated sediments are generally found within 150' of the riverbank but extend greater than 300' from the riverbank in the vicinity of the silt deposits at the southern-half of Site R.
- The areal extent of contaminated sediments is best defined by the presence of elevated concentrations of chlorobenzene at twelve sediment sample locations and to a lesser extent, 4-chloroaniline and benzene found at seven and six sediment sample locations.
- Elevated concentrations of aniline, dichlorobenzenes, PCBs, and Δ-BHC are also present in three to five sediment sample locations.
- Elevated concentrations of 1,2-dichloroethane, toluene, methoxychlor, 2,4-D, chlorobenzilate, 4,4'-DDD, bis(2-ethylhexyl)phthalate, 3-methylphenol, 2-chlorophenol, 2,4-dichlorophenol, phenol, ethylbenzene, and xylenes were also present in one or two sediment sample locations.
- None of the hazardous constituents listed above were found in any significant concentration at the upstream sample. All the hazardous constituents found in sediments appear to be associated with the groundwater discharge plume in the vicinity of Site R.
- Region 5 Ecological Data Quality Levels (EDQLs) for detected hazardous constituents are exceeded at a total of eleven of the twenty-one (52%) sediment sample locations. The number of sample locations exceeding EDQLs for specific hazardous constituents are:

*U.S. EPA Validated Sediment Sampling Results (10/27/00 - 11/3/00) from
the Mississippi River at the Solutia Facility Located in Sauget, IL*

Hazardous Constituent	EDQL in $\mu\text{g}/\text{kg}$ (ppb)	# of Sample Locations > EDQL
chlorobenzene	62	10
aniline	0.034	5
4-chloroaniline	146	4
PCBs	34	2
ethylbenzene	0.1	1
p-dichlorobenzene (1,4)	1,450	1
2,4-D	5.8	1
4,4'-DDD	5.5	1
3-methylphenol (m-cresol)	0.845	1
2-chlorophenol	11.7	1
2,4-dichlorophenol	133.6	1
phenol	27.3	1
benzene	142	0
toluene	52,500	0
o-dichlorobenzene (1,2)	3,010	0
m-dichlorobenzene (1,3)	231	0
xlenes	1,880	0
Δ -BHC	71,500	0
methoxychlor	3.6	0
chlorobenzilate	860	0
bis(2-ethylhexyl)phthalate	182	0

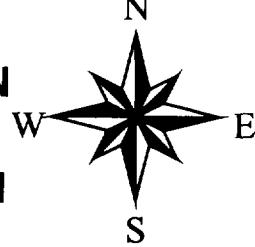
*U.S. EPA Validated Sediment Sampling Results (10/27/00 - 11/3/00) from
the Mississippi River at the Solutia Facility Located in Sauget, IL*

- From north to south, the sediment sample locations that have concentrations of hazardous constituents exceeding EDQLs are SD-2-150, PDA-8-60, SD-3-99, PDA-5-60, SD-4-90, SD-5-75, SD-5-150, SD-5-315, PDA-2-60, SD-6-90, and SD-7-150 (see figure). These sample locations correspond to the northern boundary of Site R and beyond the southern boundary of Site R.
- Neither of the two far downstream samples (SD-8-57 and SD-9-51) had concentrations of hazardous constituents exceeding EDQLs (see figure).
- The inner core of contaminated sediments (>10 ppm total organics) is found at PDA-5-60, PDA-2-60, and SD-5-150 with an outer core of contaminated sediments (>1 ppm total organics) found at SD-2-150, PDA-8-60, SD-5-75, SD-5-315, and SD-7-150. The outer core is consistent with the Site R boundary and the inner core is consistent with the southern-half of Site R, approximately 60' to 150' from the riverbank.
- The detection limits for hazardous constituents are highly elevated at sample locations PDA-5-60, PDA-2-60, and SD-5-150 due to the presence of significant contamination.



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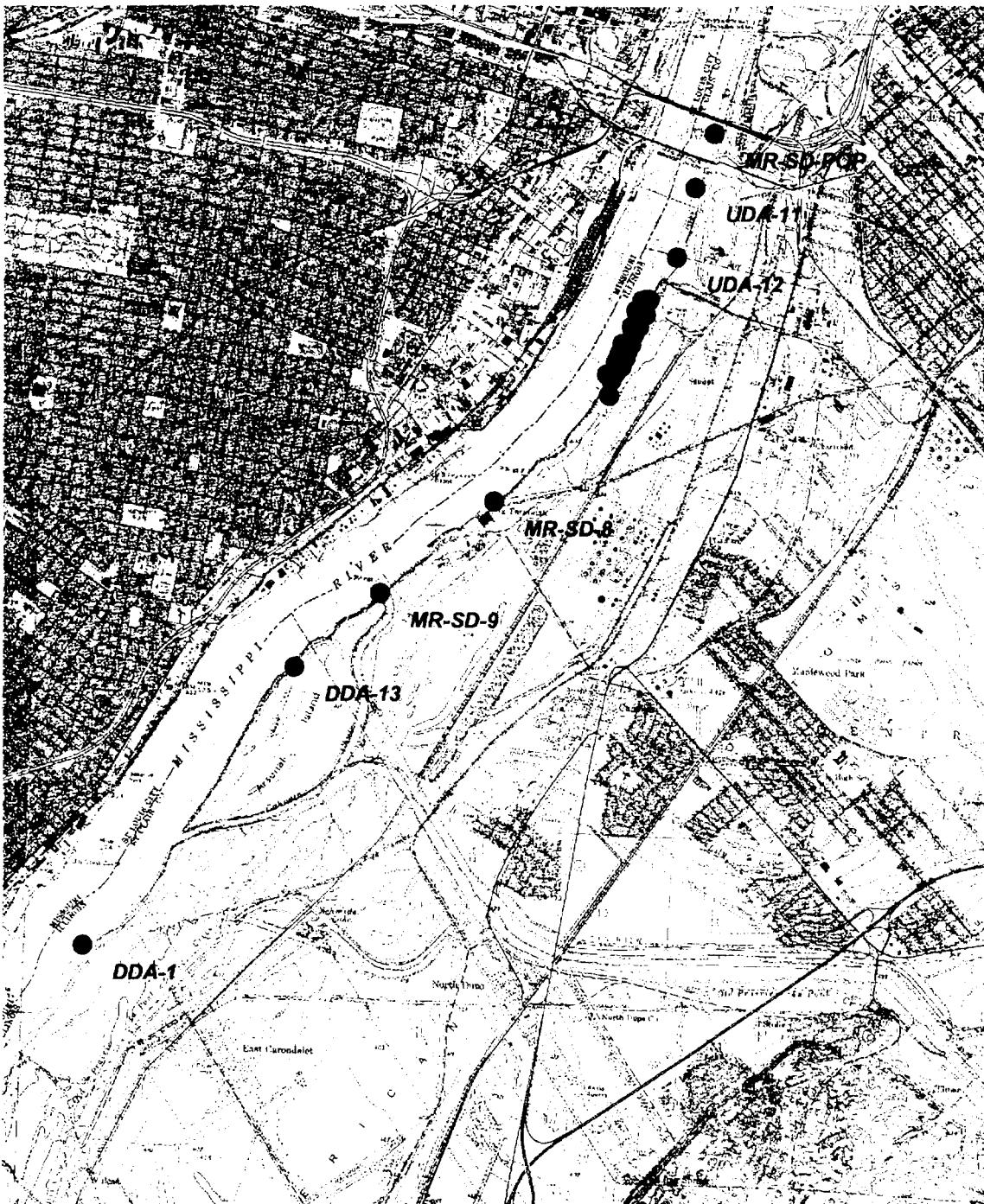
- **TETRA TECH
SAMPLING LOCATION**
- **MENZIE-CURA
SAMPLING LOCATION**



**SOLUTIA FACILITY, SAUGET, ILLINOIS
SAMPLING LOCATIONS
ADJACENT TO SITE R**

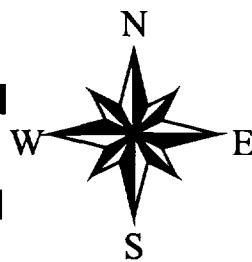


TETRA TECH EM INC.



6000 0 6000 12000 Feet

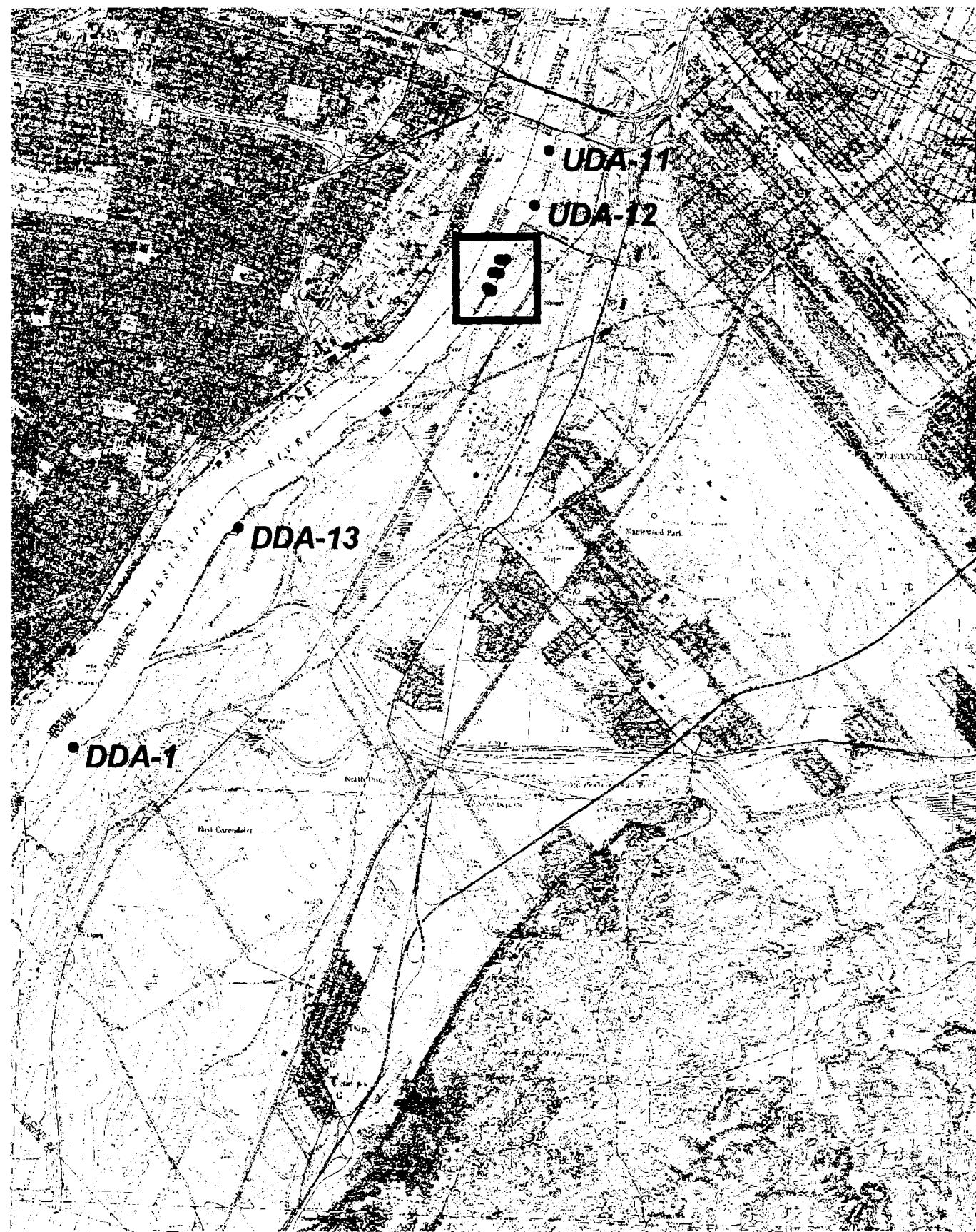
- **TETRA TECH
SAMPLING LOCATION**
- **MENZIE-CURA
SAMPLING LOCATION**



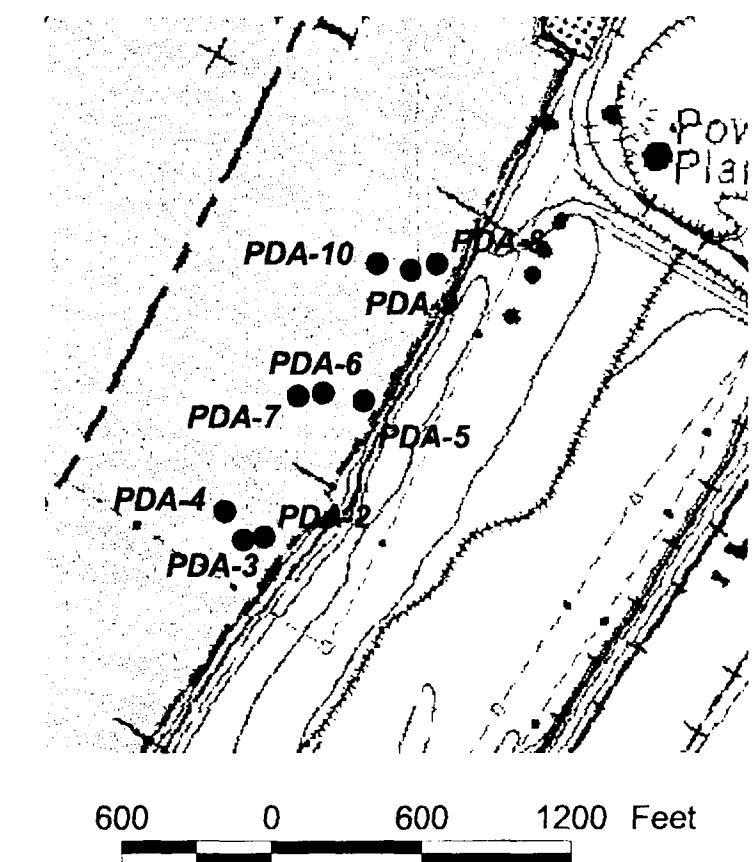
SOLUTIA FACILITY, SAUGET, ILLINOIS
UPSTREAM AND DOWNSTREAM
SAMPLING LOCATIONS



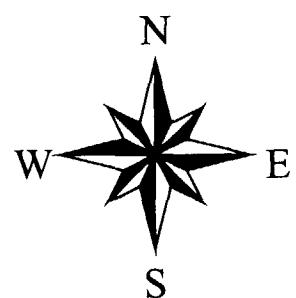
TETRA TECH EM INC.



8000 0 8000 Feet



● SAMPLING LOCATION



SOLUTIA FACILITY , SAUGET, ILLINOIS
MENZIE-CURA
SAMPLING LOCATIONS



TETRA TECH EM INC.

TABLE 1
VALIDATED ANALYTICAL RESULTS FOR SOLUTIA INC. SPLIT SAMPLES

Sample Identification	PDA-2-60	PDA-5-R-60	PDA-8-60
Date Collected	October 25, 2000	October 24, 2000	October 26, 2000
Volatile Organic Compounds (micrograms per kilogram [µg/kg])			
Acetone	5,800 U	3,300 U	1,400 U
Benzene	1,100 U	260 U	3.40 U
Chlorobenzene	10,000	450	700
1,2-Dichloroethane	1,100 U	110 J	41 J
Methylene chloride	1,100 U	260 U	340 U
Toluene	12,000	140 J	340 U
Xylenes (total)	1,100 U	120 J	340 U
Semivolatile Organic Compounds (µg/kg)			
Aniline	210 J	3,900 J	410 U
4-Chloroaniline	720	3,300	410 U
2-Chlorophenol	580 U	400 J	410 U
1,2-Dichlorobenzene	120 J	780 U	410 U
1,4-Dichlorobenzene	390 J	780 U	410 U
2,4-Dichlorophenol	580 U	610 J	410 U
3-Methylphenol	95 J	780 U	410 U
Phenol	580 U	3,200 J	410 U
2,4,6-Trichlorophenol	580 U	780 U	410 U
2,6-Dichlorophenol	580 U	780 U	410 U
Organochlorine Pesticides (µg/kg)			
Aldrin	6.0 U	4.0 U	2.1 U
alpha-BHC	6.0 U	4.0 U	2.1 U
beta-BHC	6.0 U	4.0 U	2.1 U
delta-BHC	6.0 U	44 J	5.1 J
gamma-BHC (lindane)	6.0 U	4.0 U	2.1 U
Chlordane (technical)	60 U	40 U	21 U
Chlorobenzilate	120 U	21 J	41 U
4,4-DDD	6.0 U	14	2.1 U
4,4-DDE	6.0 U	4.0 U	2.1 U
4,4-DDT	6.0 U	4.0 U	2.1 U
Diallate	120 U	78 U	41 U
Die�drin	6.0 U	4.0 U	2.1 U

TABLE 1 (continued)

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA INC. SPLIT SAMPLES

Sample Identification	PDA-2-60	PDA-5-R-60	PDA-8-60
Date Collected	October 25, 2000	October 24, 2000	October 26, 2000
Organochlorine Pesticides (µg/kg) (Continued)			
Endosulfan I	6.0 U	4.0 U	2.1 U
Endosulfan II	6.0 U	4.0 U	2.1 U
Endosulfan sulfate	6.0 U	4.0 U	2.1 U
Endrin	6.0 U	4.0 U	2.1 U
Endrin aldehyde	6.0 U	4.0 U	2.1 U
Heptachlor	6.0 U	4.0 U	2.1 U
Heptachlor epoxide	6.0 U	4.0 U	2.1 U
Isodrin	12 U	7.8 U	4.1 U
Kepone	120 U	78 U	41 U
Methoxychlor	12 U	7.8 U	4.1 U
Toxaphene	230 U	160 U	83 U
Polychlorinated Biphenyls (PCB) (µg/kg)			
Aroclor 1016	58 U	39 U	41 U
Aroclor 1221	58 U	39 U	41 U
Aroclor 1232	58 U	39 U	41 U
Aroclor 1242	58 U	39 U	41 U
Aroclor 1248	58 U	84 J	41 U
Aroclor 1254	58 U	39 U	41 U
Aroclor 1260	58 U	39 U	41 U
Herbicides (µg/kg)			
2,4-D	140 U	790	99 U
2,4,5-TP (Silvex)	35 U	24 U	25 U
2,4,5-T	35 U	24 U	25 U
Organophosphorus Pesticides (µg/kg)			
Dimethoate	1,200 U	39 U	41 U
Disulfoton	1,200 U	39 U	41 U
Famphur	1,200 U	39 U	41 U
Methyl parathion	1,200 U	39 U	41 U
Phorate	1,200 U	39 U	41 U
Tetraethylthiopyrophosphate	1,200 U	39 U	41 U
Thionazin	1,200 U	39 U	41 U
o,o,o-Triethylphosphorothioate	1,200 U	39 U	41 U

TABLE 1 (continued)

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA INC. SPLIT SAMPLES

Sample Identification	PDA-2-60	PDA-5-R-60	PDA-8-60
Date Collected	October 25, 2000	October 24, 2000	October 26, 2000
General Chemistry (milligram per kilogram)			
Total organic carbon	11,000	390	510

Notes:

J = The result was estimated for quality control reasons.

U = The analyte was not detected; the numerical value is the sample reporting limit.

UJ = The analyte was not detected; the sample reporting limit is estimated for quality control reasons.

TABLE 2
VALIDATED ANALYTICAL RESULTS FOR SOLUTIA INC. SEDIMENT SAMPLES

Sample Identification	MR-SD-1-50	MR-SD-1-150	MR-SD-1-300	MR-SD-2-50	MR-SD-2-150
Date Collected		November 1, 2000			
Volatile Organic Compounds (indicated value per kilogram ($\mu\text{g}/\text{kg}$))					
Acetone	22 U	22 U	26 U	24 U	1,300 U
Benzene	5.5 U	5.4 U	6.4 U	5.9 U	55 J
Chlorobenzene	5.5 U	5.4 U	6.4 U	6.5	390
Chloroform	5.5 U	5.4 U	6.4 U	5.9 U	300 U
Ethylbenzene	5.5 U	5.4 U	6.4 U	5.9 U	300 U
Methylene chloride	5.5 U	5.4 U	6.4 U	5.9 U	300 U
Xylenes (total)	5.5 U	5.4 U	6.4 U	5.9 U	300 U
Semivolatile Organic Compounds ($\mu\text{g}/\text{kg}$)					
Aniline	400 U	390 U	390 U	400 U	400 U
bis(2-Ethylhexyl)phthalate	400 U	390 U	390 U	400 U	400 U
4-Chloroaniline	400 U	390 U	390 U	400 U	99 J
1,2-Dichlorobenzene	400 U	390 U	390 U	400 U	400 U
1,3-Dichlorobenzene	400 U	390 U	390 U	400 U	400 U
1,4-Dichlorobenzene	400 U	390 U	390 U	400 U	400 U
Organochlorine Pesticides ($\mu\text{g}/\text{kg}$)					
Aldrin	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
alpha-BHC	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
beta-BHC	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
delta-BHC	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
gamma-BHC (lindane)	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
Chlordane (technical)	20 U	20 U	20 U	21 U	20 U
Chlorobenzilate	40 U	39 U	39 U	40 U	40 U
4,4-DDD	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
4,4-DDE	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
4,4-DDT	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
Diallate	40 U	39 U	39 U	40 U	40 U
Dieldrin	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
Endosulfan I	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
Endosulfan II	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
Endosulfan sulfate	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U

TABLE 2 (Continued)

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA, INC. SEDIMENT SAMPLES

Sample Identification	MR-SD-1-50	MR-SD-1-150	MR-SD-1-300	MR-SD-2-50	MR-SD-2-150
Date Collected	November 1, 2000				
Organochlorine Pesticides (µg/kg) (Continued)					
Endrin	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
Endrin aldehyde	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
Heptachlor	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
Heptachlor epoxide	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U
Isodrin	4.0 U	3.9 U	3.9 U	4.0 U	4.0 U
Kepone	40 U	39 U	39 U	40 U	40 U
Methoxychlor	4.0 U	3.9 U	3.9 U	4.0 U	4.0 U
Toxaphene	80 U	80 U	79 U	81 U	81 U
Polychlorinated Biphenyls (PCB) (µg/kg)					
Aroclor 1016	40 U	39 U	39 U	40 U	40 U
Aroclor 1221	40 U	39 U	39 U	40 U	40 U
Aroclor 1232	40 U	39 U	39 U	40 U	40 U
Aroclor 1242	40 U	39 U	39 U	40 U	40 U
Aroclor 1248	40 U	39 U	39 U	40 U	40 U
Aroclor 1254	40 U	39 U	39 U	40 U	40 U
Aroclor 1260	40 U	39 U	39 U	40 U	40 U
Herbicides (µg/kg)					
2,4-D	96 U	95 U	94 U	97 U	96 U
2,4,5-TP (Silvex)	24 U	24 U	24 U	24 U	24 U
2,4,5-T	24 U	24 U	24 U	24 U	24 U
Organophosphorus Pesticides (µg/kg)					
Dimethoate	40 U	39 U	39 U	40 U	40 U
Disulfoton	40 U	39 U	39 U	40 U	40 U
Famphur	40 U	39 U	39 U	40 U	40 U
Methyl parathion	40 U	39 U	39 U	40 U	40 U
Phorate	40 U	39 U	39 U	40 U	40 U
Tetraethylthiopyrophosphate	40 U	39 U	39 U	40 U	40 U
Thionazin	40 U	39 U	39 U	40 U	40 U
o,o'-Triethylphosphorothioate	40 U	39 U	39 U	40 U	40 U
General Chemistry (milligram per kilogram)					
Total organic carbon	120 U	120 U	120 U	120 U	120 U

TABLE 2 (Continued)

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA, INC. SEDIMENT SAMPLES

Sample Identification	MR-SD-2-330	MR-SD-3-25*	MR-SD-3-99	MR-SD-4-90	MR-SD-POP-90
Date Collected	November 1, 2000	November 2, 2000			
Volatile Organic Compounds (micrograms per kilogram [µg/kg])					
Acetone	21 U	30 U	160 U	26 U	28 U
Benzene	5.3 U	7.5 U	16 U	4.2 J	7.1 U
Chlorobenzene	5.3 U	7.5 U	3.3 J	100 J	7.1 U
Chloroform	5.3 U	7.5 U	16 U	6.5 U	7.1 U
Ethylbenzene	5.3 U	7.5 U	16 U	2.0 J	7.1 U
Methylene chloride	5.3 U	7.5 U	16 U	6.5 U	7.1 U
Xylenes (total)	5.3 U	7.5 U	16 U	2.6 J	7.1 U
Semivolatile Organic Compounds (µg/kg)					
Aniline	380 U	440	220 J	400 U	410 U
bis(2-Ethylhexyl)phthalate	380 U	390 U	390 U	400 U	410 U
4-Chloroaniline	380 U	390 U	130 J	400 U	410 U
1,2-Dichlorobenzene	380 U	390 U	390 U	400 U	410 U
1,3-Dichlorobenzene	380 U	390 U	390 U	400 U	410 U
1,4-Dichlorobenzene	380 U	390 U	390 U	400 U	410 U
Organochlorine Pesticides (µg/kg)					
Aldrin	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
alpha-BHC	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
beta-BHC	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
delta-BHC	2.0 U	2.0 U	2.0 U	3.7 J	2.1 U
gamma-BHC (lindane)	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
Chlordane (technical)	20 U	20 U	20 U	41 U	21 U
Chlorobenzilate	38 U	39 U	39 U	79 U	41 U
4,4-DDD	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
4,4-DDE	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
4,4-DDT	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
Diallate	38 U	39 U	39 U	79 U	41 U
Dieldrin	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
Endosulfan I	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
Endosulfan II	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
Endosulfan sulfate	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U

TABLE 2 (Continued)

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA, INC. SEDIMENT SAMPLES

Sample Identification	MR-SD-2-330	MR-SD-3-25*	MR-SD-3-99	MR-SD-4-90	MR-SD-POP-90
Date Collected	November 1, 2000	November 2, 2000			
Organochlorine Pesticides (µg/kg) (Continued)					
Endrin	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
Endrin aldehyde	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
Heptachlor	2.0 U	2.0 U	2.0 U	4.1 UJ	2.1 U
Heptachlor epoxide	2.0 U	2.0 U	2.0 U	4.1 U	2.1 U
Isodrin	3.8 U	3.9 U	3.9 U	7.9 U	4.1 U
Kepone	38 U	39 U	39 U	79 U	41 U
Methoxychlor	3.8 U	3.9 U	3.9 U	3.4 J	4.1 U
Toxaphene	78 U	80 U	80 U	160 U	84 U
Polychlorinated Biphenyls (PCB) (µg/kg)					
Aroclor 1016	38 U	39 U	39 U	40 U	41 U
Aroclor 1221	38 U	39 U	39 U	40 U	41 U
Aroclor 1232	38 U	39 U	39 U	40 U	41 U
Aroclor 1242	38 U	39 U	39 U	40 U	41 U
Aroclor 1248	38 U	39 U	39 U	40 U	41 U
Aroclor 1254	38 U	39 U	39 U	40 U	41 U
Aroclor 1260	38 U	39 U	39 U	40 U	41 U
Herbicides (µg/kg)					
2,4-D	93 U	96 U	95 U	96 U	100 U
2,4,5-TP (Silvex)	23 U	24 U	24 U	24 U	25 U
2,4,5-T	23 U	24 U	24 U	24 U	25 U
Organophosphorus Pesticides (µg/kg)					
Dimethoate	38 U	39 UJ	39 UJ	40 UJ	41 UJ
Disulfoton	38 U	39 UJ	39 UJ	40 UJ	41 UJ
Famphur	38 U	39 U	39 U	40 UJ	41 U
Methyl parathion	38 U	39 UJ	39 UJ	40 UJ	41 UJ
Phorate	38 U	39 UJ	39 UJ	40 UJ	41 UJ
Tetraethylthiopyrophosphate	38 U	39 U	39 U	40 UJ	41 U
Thionazin	38 U	39 U	39 U	40 UJ	41 U
o,o,o-Triethylphosphorothioate	38 U	39 U	39 U	40 UJ	41 U
General Chemistry (milligram per kilogram)					
Total organic carbon	120 U	120 U	120 U	120 U	130 U

TABLE 2 (Continued)

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA, INC. SEDIMENT SAMPLES

Sample Identification	MR-SD-5-75	MR-SD-5-150	MR-SD-5-315	MR-SD-6-25 ^b	MR-SD-6-90
Date Collected	November 3, 2000				
Volatile Organic Compounds (micrograms per kilogram [µg/kg])					
Acetone	1,300 U	2,500 U	1,300 U	,24 U	35 U
Benzene	45 J	58 J	260 U	9.0	0.72 J
Chlorobenzene	1,800	6,700	3,100	82	8.0
Chloroform	370 U	320 U	260 U	6.0 U	5.6 U
Ethylbenzene	370 U	320 U	260 U	6.0 U	5.6 U
Methylene chloride	370 U	320 U	260 U	6.1 U	5.6 U
Xylenes (total)	370 U	320 U	260 U	6.0 U	5.6 U
Semivolatile Organic Compounds (µg/kg)					
Aniline	2,400	3,400	380 U	400 U	400 U
bis(2-Ethylhexyl)phthalate	430 U	430 U	380 U	93 J	400 U
4-Chloroaniline	3,000 J	6,400 J	380 U	400 U	400 U
1,2-Dichlorobenzene	430 U	430 U	380 U	190 J	55 J
1,3-Dichlorobenzene	430 U	430 U	380 U	150 J	400 U
1,4-Dichlorobenzene	300 J	1,700	380 U	330 J	51 J
Organochlorine Pesticides (µg/kg)					
Aldrin	2.2 U	11 U	1.9 U	2.0 U	2.0 U
alpha-BHC	2.2 U	11 U	1.9 U	2.0 U	2.0 U
beta-BHC	2.2 U	11 U	1.9 U	2.0 U	2.0 U
delta-BHC	2.2 U	11 U	1.9 U	2.0 U	2.0 U
gamma-BHC (lindane)	2.2 U	11 U	1.9 U	2.0 U	2.0 U
Chlordane (technical)	22 U	110 U	19 U	20 U	20 U
Chlorobenzilate	43 U	220 U	38 U	40 U	40 U
4,4-DDD	2.2 U	11 U	1.9 U	2.0 U	2.0 U
4,4-DDE	2.2 U	11 U	1.9 U	2.0 U	2.0 U
4,4-DDT	2.2 U	11 U	1.9 U	2.0 U	2.0 U
Diallate	43 U	220 U	38 U	40 U	40 U
Dieldrin	2.2 U	11 U	1.9 U	2.0 U	2.0 U
Endosulfan I	2.2 U	11 U	1.9 U	2.0 U	2.0 U
Endosulfan II	2.2 U	11 U	1.9 U	2.0 U	2.0 U
Endosulfan sulfate	2.2 U	11 U	1.9 U	2.0 U	2.0 U

TABLE 2 (Continued)

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA, INC. SEDIMENT SAMPLES

Sample Identification	MR-SD-5-75	MR-SD-5-150	MR-SD-5-315	MR-SD-6-25 ^b	MR-SD-6-90
Date Collected	November 3, 2000				
Organochlorine Pesticides (µg/kg) (Continued)					
Endrin	2.2 U	11 U	1.9 U	2.0 U	2.0 U
Endrin aldehyde	2.2 U	11 U	1.9 U	2.0 U	2.0 U
Heptachlor	2.2 U	11 U	1.9 U	2.0 U	2.0 U
Heptachlor epoxide	2.2 U	11 U	1.9 U	2.0 U	2.0 U
Isodrin	4.3 U	22 U	3.8 U	4.0 U	4.0 U
Kepone	43 U	220 U	38 U	40 U	40 U
Methoxychlor	4.3 U	22 U	3.8 U	4.0 U	4.0 U
Toxaphene	88 U	440 U	77 U	81 U	80 U
Polychlorinated Biphenyls (PCB) (µg/kg)					
Aroclor 1016	43 U	120 J	38 U	40 U	40 U
Aroclor 1221	43 U	43 U	38 U	40 U	40 U
Aroclor 1232	43 U	43 U	38 U	40 U	40 U
Aroclor 1242	43 U	43 U	38 U	40 U	40 U
Aroclor 1248	43 U	43 U	38 U	40 U	31 J
Aroclor 1254	43 U	43 U	38 U	40 U	40 U
Aroclor 1260	43 U	43 U	38 U	40 U	40 U
Organochlorine Herbicides (µg/kg)					
2,4-D	100 U	100 U	92 U	96 U	96 U
2,4,5-TP (Silvex)	26 U	26 U	23 U	24 U	24 U
2,4,5-T	26 U	26 U	23 U	24 U	24 U
Organophosphorus Pesticides (µg/kg)					
Dimethoate	43 U	43 U	38 U	40 U	40 U
Disulfoton	43 U	43 U	38 U	40 U	40 U
Famphur	43 U	43 U	38 U	40 U	40 U
Methyl parathion	43 U	43 U	38 U	40 U	40 U
Phorate	43 U	43 U	38 U	40 U	40 U
Tetraethylthiopyrophosphate	43 U	43 U	38 U	40 U	40 U
Thionazin	43 U	43 U	38 U	40 U	40 U
o,o,o-Triethylphosphorothioate	43 U	43 U	38 U	40 U	40 U
General Chemistry (milligram per kilogram)					
Total organic carbon	200	7,400	110 U	870	1,100

TABLE 2 (Continued)

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA, INC. SEDIMENT SAMPLES

Sample Identification	MR-SD-7-45	MR-SD-7-150	MR-SD-7-280	MR-SD-8-57	MR-SD-9-51
Date Collected	November 3, 2000		October 27, 2000		
Volatile Organic Compounds (micrograms per kilogram [$\mu\text{g}/\text{kg}$])					
Acetone	35 U	1,600 U	22 U	75 U	120 U
Benzene	5.7 U	36 J	5.5 U	6.0 U	6.8 U
Chlorobenzene	2.2 U	1,600	5.5 U	6.0 U	1.6 J
Chloroform	5.7 U	270 U	5.5 U	6.0 U	6.8 U
Ethylbenzene	5.7 U	270 U	5.5 U	6.0 U	6.8 U
Methylene chloride	5.7 U	270 U	5.5 U	6.0 U	6.8 U
Xylenes (total)	5.7 U	270 U	5.5 U	6.0 U	6.8 U
Semivolatile Organic Compounds ($\mu\text{g}/\text{kg}$)					
Aniline	400 U	390 U	390 U	390 U	420 U
bis(2-Ethylhexyl)phthalate	400 U	390 U	390 U	390 U	420 U
4-Chloroaniline	400 U	58 J	390 U	390 U	420 U
1,2-Dichlorobenzene	400 U	390 U	390 U	390 U	420 U
1,3-Dichlorobenzene	400 U	390 U	390 U	390 U	420 U
1,4-Dichlorobenzene	400 U	390 U	390 U	390 U	420 U
Organochlorine Pesticides ($\mu\text{g}/\text{kg}$)					
Aldrin	2.1 U	2.0 U	2.0 U	2.0 U	11 U
alpha-BHC	2.1 U	2.0 U	2.0 U	2.0 U	11 U
beta-BHC	2.1 U	2.0 U	2.0 U	2.0 U	11 U
delta-BHC	2.1 U	2.0 U	2.0 U	2.0 U	11 U
gamma-BHC (lindane)	2.1 U	2.0 U	2.0 U	2.0 U	11 U
Chlordane (technical)	21 U	20 U	20 U	20 U	110 U
Chlorobenzilate	40 U	39 U	39 U	39 U	210 U
4,4-DDD	2.1 U	2.0 U	2.0 U	2.0 U	11 U
4,4-DDE	2.1 U	2.0 U	2.0 U	2.0 U	11 U
4,4-DDT	2.1 U	2.0 U	2.0 U	2.0 U	11 U
Diallate	40 U	39 U	39 U	39 U	210 U
Dieledrin	2.1 U	2.0 U	2.0 U	2.0 U	11 U
Endosulfan I	2.1 U	2.0 U	2.0 U	2.0 U	11 U
Endosulfan II	2.1 U	2.0 U	2.0 U	2.0 U	11 U
Endosulfan sulfate	2.1 U	2.0 U	2.0 U	2.0 U	11 U
Endrin	2.1 U	2.0 U	2.0 U	2.0 U	11 U

TABLE 2 (Continued)

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA, INC. SEDIMENT SAMPLES

Sample Identification	MR-SD-7-45	MR-SD-7-150	MR-SD-7-280	MR-SD-8-57	MR-SD-9-51
Date Collected	November 3, 2000			October 27, 2000	
Organochlorine Pesticides (µg/kg) (Continued)					
Endrin aldehyde	2.1 U	2.0 U	2.0 U	2.0 U	11 U
Heptachlor	2.1 U	2.0 U	2.0 U	2.0 U	11 U
Heptachlor epoxide	2.1 U	2.0 U	2.0 U	2.0 U	11 U
Isodrin	4.0 U	3.9 U	3.9 U	3.9 U	21 U
Kepone	40 U	39 U	39 U	39 U	210 U
Methoxychlor	4.0 U	3.9 U	3.9 U	3.9 U	21 U
Toxaphene	81 U	79 U	80 U	79 U	420 U
Polychlorinated Biphenyls (PCB) (µg/kg)					
Aroclor 1016	40 U	39 U	39 U	39 U	42 U
Aroclor 1221	40 U	39 U	39 U	39 U	42 U
Aroclor 1232	40 U	39 U	39 U	39 U	42 U
Aroclor 1242	40 U	39 U	39 U	39 U	42 U
Aroclor 1248	40 U	20 J	39 U	39 U	42 U
Aroclor 1254	40 U	39 U	39 U	39 U	42 U
Aroclor 1260	40 U	39 U	39 U	39 U	42 U
Organochlorine Herbicides (µg/kg)					
2,4-D	97 U	94 U	95 U	94 U	100 U
2,4,5-TP (Silvex)	24 U	24 U	24 U	24 U	25 U
2,4,5-T	24 U	24 U	24 U	24 U	25 U
Organophosphorus Pesticides (µg/kg)					
Dimethoate	40 U	39 U	39 U	39 U	42 U
Disulfoton	40 U	39 U	39 U	39 U	42 U
Famphur	40 U	39 U	39 U	39 U	42 U
Methyl parathion	40 U	39 U	39 U	39 U	42 U
Phorate	40 U	39 U	39 U	39 U	42 U
Tetraethylthiopyrophosphate	40 U	39 U	39 U	39 U	42 U
Thionazin	40 U	39 U	39 U	39 U	42 U
o,o,o-Triethylphosphorothioate	40 U	39 U	39 U	39 U	42 U
General Chemistry (milligram per kilogram)					
Total organic carbon	780	120 U	120 U	120 U	3,700

TABLE 2 (Continued)

VALIDATED ANALYTICAL RESULTS FOR SOLUTIA, INC. SEDIMENT SAMPLES

Notes:

J = The result was estimated for quality control reasons.
U = The analyte was not detected; the numerical value is the sample reporting limit.
UJ = The analyte was not detected; the sample reporting limit is estimated for quality control reasons.

- * Field duplicate of sample MR-SD-3-99.
Field duplicate of sample MR-SD-6-90.

**Chain of
Custody Record**

QUA-4124 0797

Pop

Quanterra

16

Client Tetra Tech EMI			Project Manager Lisa Graczyk			Date 11/2/00	Chain of Custody Number 42771																			
Address 200 E. Randolph			Telephone Number (Area Code)/Fax Number 312/856-8700			Lab Number 3301996-7290	Page _____ or _____																			
City Chicago	State IL	Zip Code 60601	Ship Contact Kirit Bhatt	Lab Contact Jeff Smith	Analysis (Attach list if more space is needed)																					
Project Name			Carrier/Waybill Number																							
Contract/Purchase Order/Quote No.			Matrix		Containers & Preservatives				Special Instructions/ Conditions of Receipt																	
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date	Time	Agar	Sil	Soil	Uncont	Methyl	HANOS	HCl	NH4+	ZnSO4	NaOH	Yield %	SYNOL's	PESTCIDE'S	Herbicides	PET's, TOL	Crown size	Total Solids	# of jars	#			
MR-SD-Pop-90			11/2/00	11:00	X			X							X	PESTCIDE'S 11/2/00							4	3 Encore, 1 203		
MR-SD-Pop-90			11/2/00	11:00	X			X									XXXX							2	2x16 oz	
MR-SD-Pop-90			11/2/00	11:00	X			X											X					1	1x16 oz	
MR-SD-Pop-90			11/2/00	11:00	X			X												X					1	1 plastic
Trip Blank																										
Temp Blank																										
Possible Hazard Identification			Sample Disposal										(A fee may be assessed if samples are retained longer than 3 months)													
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			<input type="checkbox"/> Return To Client					<input type="checkbox"/> Disposal By Lab					<input type="checkbox"/> Archive For _____ Months													
Turn Around Time Required			QC Requirements (Specify)																							
<input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other...																										
1. Relinquished By <i>David Black</i>			Date 11/2/00	Time FED EX	1. Received By <i>S</i>			Date 11/3/00							Time 905											
2. Relinquished By			Date	Time	2. Received By																					
3. Relinquished By			Date	Time	3. Received By																					
Comments																										

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:AOK030169 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 11/03/00

Work Order: DPAKE1AL

Date Extracted: 11/13/00

Dilution factor: 1.14

Date Analyzed: 11/13/00

Moisture ‰:20

QC Batch: 0319199

Client Sample Id: MR-SD-POP-90

CONCENTRATION UNITS:

(ug/L or ug/kg) ug/kg

Q

CAS NO.	COMPOUND		J B
67-64-1	Acetone	4.1	Q
75-05-8	Acetonitrile	140	Q
107-02-8	Acrolein	140	Q
107-13-1	Acrylonitrile	140	Q
107-05-1	Allyl chloride	14	Q
71-43-2	Benzene	7.1	Q
75-27-4	Bromodichloromethane	7.1	Q
75-25-2	Bromoform	7.1	Q
74-83-9	Bromomethane	14	Q
78-93-3	2-Butanone (MEK)	29	Q
75-15-0	Carbon disulfide	7.1	Q
56-23-5	Carbon tetrachloride	7.1	Q
108-90-7	Chlorobenzene	7.1	Q
75-00-3	Chloroethane	14	Q
67-66-3	Chloroform	7.1	Q
74-87-3	Chloromethane	14	Q
126-99-8	Chloroprene	7.1	Q
124-48-1	Dibromochloromethane	7.1	Q
96-12-8	1,2-Dibromo-3-chloropropane	14	Q
106-93-4	1,2-Dibromoethane (EDB)	7.1	Q
74-95-3	Dibromomethane	7.1	Q
110-57-6	trans-1,4-Dichloro-2-butene	7.1	Q
75-71-8	Dichlorodifluoromethane	14	Q
75-34-3	1,1-Dichloroethane	7.1	Q
107-06-2	1,2-Dichloroethane	7.1	Q
75-35-4	1,1-Dichloroethene	7.1	Q
156-60-5	trans-1,2-Dichloroethene	3.6	Q
78-87-5	1,2-Dichloropropane	7.1	Q

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0K030169 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 11/03/00

Work Order: DPAKE1AD

Date Extracted: 11/04/00

Dilution factor: 1

Date Analyzed: 11/27/00

Moisture ‰:20

QC Batch: 0309094

Client Sample Id: MR-SD-POP-90

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg		Q
		410		
83-32-9	Acenaphthene	410		U
208-96-8	Acenaphthylene	410		U
98-86-2	Acetophenone	410		U
53-96-3	2-Acetylaminofluorene	4100		U
92-67-1	4-Aminobiphenyl	2000		U
62-53-3	Aniline	410		U
120-12-7	Anthracene	410		U
56-55-3	Benzo(a)anthracene	410		U
205-99-2	Benzo(b)fluoranthene	410		U
207-08-9	Benzo(k)fluoranthene	410		U
65-85-0	Benzoic acid	2000		U
191-24-2	Benzo(ghi)perylene	410		U
50-32-8	Benzo(a)pyrene	410		U
100-51-6	Benzyl alcohol	410		U
111-91-1	bis(2-Chloroethoxy)methane	410		U
111-44-4	bis(2-Chloroethyl) ether	410		U
108-60-1	bis(2-Chloro-1-methylethyl)	410		U
117-81-7	bis(2-Ethylhexyl) phthalate	410		U
101-55-3	4-Bromophenyl phenyl ether	410		U
85-68-7	Butyl benzyl phthalate	410		U
106-47-8	4-Chloroaniline	410		U
59-50-7	4-Chloro-3-methylphenol	410		U
91-58-7	2-Chloronaphthalene	410		U
95-57-8	2-Chlorophenol	410		U
7005-72-3	4-Chlorophenyl phenyl ether	410		U
218-01-9	Chrysene	410		U
2303-16-4	Diallate	830		U
53-70-3	Dibenz(a,h)anthracene	410		U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0K030169 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 11/03/00

Work Order: DPAKE1AD

Date Extracted: 11/04/00

Dilution factor: 1

Date Analyzed: 11/27/00

Moisture †:20

QC Batch: 0309094

Client Sample Id: MR-SD-POP-90

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
132-64-9	Dibenzofuran	410		U
84-74-2	Di-n-butyl phthalate	410		U
95-50-1	1,2-Dichlorobenzene	410		U
541-73-1	1,3-Dichlorobenzene	410		U
106-46-7	1,4-Dichlorobenzene	410		U
91-94-1	3,3'-Dichlorobenzidine	2000		U
120-83-2	2,4-Dichlorophenol	410		U
87-65-0	2,6-Dichlorophenol	410		U
84-66-2	Diethyl phthalate	410		U
297-97-2	Thionazin	2000		U
60-51-5	Dimethoate	830		U
60-11-7	p-Dimethylaminoazobenzene	830		U
57-97-6	7,12-Dimethylbenz(a)anthracene	830		U
119-93-7	3,3'-Dimethylbenzidine	2000		U
105-67-9	2,4-Dimethylphenol	410		U
131-11-3	Dimethyl phthalate	410		U
117-84-0	Di-n-octyl phthalate	410		U
99-65-0	1,3-Dinitrobenzene	410		U
534-52-1	4,6-Dinitro-2-methylphenol	2000		U
51-28-5	2,4-Dinitrophenol	2000		U
121-14-2	2,4-Dinitrotoluene	410		U
606-20-2	2,6-Dinitrotoluene	410		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	830		U
122-39-4	Diphenylamine	410		U
298-04-4	Disulfoton	2000		U
62-50-0	Ethyl methanesulfonate	410		U
52-85-7	Famphur	4100		U
206-44-0	Fluoranthene	410		U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0K030169 004

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 30.15 / g

Date Received: 11/03/00

Work Order: DPAKE1AE

Date Extracted: 11/04/00

Dilution factor: 1

Date Analyzed: 11/09/00

Moisture %:20

QC Batch: 0309092

Client Sample Id: MR-SD-POP-90

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	
		Q	U
309-00-2	Aldrin	2.1	U
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
57-74-9	Chlordane (technical)	21	U
510-15-6	Chlorobenzilate	41	U
72-54-8	4,4'-DDD	2.1	U
72-55-9	4,4'-DDE	2.1	U
50-29-3	4,4'-DDT	2.1	U
2303-16-4	Diallate	41	U
60-57-1	Dieldrin	2.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	2.1	U
1031-07-8	Endosulfan sulfate	2.1	U
72-20-8	Endrin	2.1	U
7421-93-4	Endrin aldehyde	2.1	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
465-73-6	Isodrin	4.1	U
143-50-0	Kepone	41	U
72-43-5	Methoxychlor	4.1	U
8001-35-2	Toxaphene	84	U

**Chain of
Custody Record**

S-2

Quanterra

13

OUA-4124 0707

Client Tetra Tech EMI			Project Manager Lisa Graczyk			Date 11/1/00	Chain of Custody Number 42816				
Address 200 E Randolph			Telephone Number (Area Code)/Fax Number 312/856-8700			Lab Number 330/966-7290	Page <u>1</u> or <u>1</u>				
City Chicago	State IL	Zip Code 60601	Site Contact Kirit Bhatt	Lab Contact Jeff Smith	Analysis (Attach list if more space is needed)						
Project Name Mississippi River			Carrier/Waybill Number								
Contract/Purchase Order/Quote No.			Matrix		Containers & Preservatives				Special Instructions/ Conditions of Receipt		
Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Ammonium Sulfate Sulfur	Urea H2SO4 HNO3 HCl NaOH ZnO NaOH	Vials SS	PEST (Pesticide) Herbicides OC's, TOC	Glass Total Solids	# of Jars			
MR-SD-2-50	11/1/00	11:10	X	X	X		X	4	3 Encore, 1 2 oz		
MR-SD-2-50	11/1/00	11:15	X	X	X		XXXX	2	2 x 16 oz		
MR-SD-2-50	11/1/00	11:15	X	X	X			1	1 x 16 oz		
MR-SD-2-50	11/1/00	11:15	X	X	X		X	1	1 plastic		
MR-SD-2-150	11/1/00	11:35	X	X	X	X		4	3 Encore, 1 2 oz		
MR-SD-2-150	11/1/00	11:40	X	X	X		XXXX	2	2 x 16 oz		
MR-SD-2-150	11/1/00	11:40	X	X	X			1	1 x 16 oz		
MR-SD-2-150	11/1/00	11:35	X	X	X		X	1	1 plastic		
MR-SD-2-330	11/1/00	12:00	X	X	X	X		4	3 Encore 1 2 oz		
MR-SD-2-330	11/1/00	12:10	X	X	X		XXXX	2	2 x 16 oz		
MR-SD-2-330	11/1/00	12:00	X	X	X		X	1	1 x 16 oz		
MR-SD-2-330	11/1/00	12:00	X	X	X		X	1	1 plastic		
Possible Hazard Identification			Sample Disposal			(A fee may be assessed if samples are retained longer than 3 months)					
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For _____ Months				
Turn Around Time Required						QC Requirements (Specify)					
<input type="checkbox"/> 24 Hours	<input type="checkbox"/> 48 Hours	<input type="checkbox"/> 7 Days	<input type="checkbox"/> 14 Days	<input type="checkbox"/> 21 Days	<input type="checkbox"/> Other _____						
1. Relinquished By <i>KB</i>			Date 11/1/00	Time <i>10:45</i>		1. Received By <i>STL North Canton</i>			Date 11/2/00	Time <i>9:20</i>	
2. Relinquished By			Date	Time		2. Received By			Date	Time	
3. Relinquished By			Date	Time		3. Received By			Date	Time	
Comments											

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

T20

STL North Canton

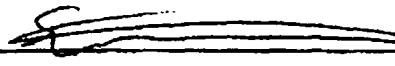
**Chain of
Custody Record**

S-1

Quanterra

14

QUA-4124 0797

Client TERRA TECH EM INC.	Project Manager LISA GRACY IC	Date 11/11/00	Chain of Custody Number 42815		
Address 200 E. RANDOLPH DR. 4700 SUITE	Telephone Number (Area Code)/Fax Number (312) 856-7800 8700	Lab Number (330) 966-7290	Page 1 of 2		
City CHICAGO	State IL Zip Code 60601	Site Contact KIRIT BHATT JEFF SMITH	Analysis (Attach list if more space is needed)		
Project Name	Carrier/Waybill Number				
Contract/Purchase Order/Quote No.		Matrix	Containers & Preservatives	Special Instructions/ Conditions of Receipt	
Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	VOC ORGANIC PCB'S PCBS TOTAL PCB'S LEAD/BICLIXES TOTAL SOLIDS GROUT SOLIDS	1X 203 JAR. 3 ENCLURES 2 X 1603 JARS 1 X 1603 JAR 1 X PLASTIC JAR 1 X 203 JAR 3 ENCLURES 2 X 1603 JARS. 1 X 1603 JAR. 1 X PLASTIC JAR 1 X 203 JAR. 3 ENCLURES.	
MR-SD-1-50	11/11/00	2:25PM	X		
MR-SD-1-50	11	11	X		
MR-SD-1-50	11	11	X	X XXXXX X X	
MR-SD-1-50	11	11	X	X	
MR-SD-1-50	11	11	X	X	
MR-SD-1-150	11	11	X	X	
MR-SD-1-150	11	11	X	X	
MR-SD-1-150	11	11	X	X XXXXX X X	
MR-SD-1-150	11	11	X	X	
MR-SD-1-150	11	11	X	X	
MR-SD-1-300	11/11/00	2:50PM	X	X	
MR-SD-1-300	11	11	X	X	
Possible Hazard Identification	Sample Disposal				
<input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)				
Turn Around Time Required	QC Requirements (Specify)				
<input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____					
1. Relinquished By 	Date 11/11/00	Time 5:30 PM	1. Received By 	Date 11/11/00	Time 9:20
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time
Comments					

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

**Chain of
Custody Record**

QUA-4124 0787

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T

Client TETRA TECH EM INC.			Project Manager LISA GRACZYK								Date 11/1/00	Chain of Custody Number 42768											
Address 200 E. RANDOLPH DR. SUIT U700 CHICAGO IL 60601			Telephone Number (Area Code)/Fax Number (312) 858-8700								Lab Number (330) 996-7290	Page 2 of 2											
City CHICAGO	State IL	Zip Code 60601	Site Contact KIRIT BHATT	Lab Contact JEFF SMITH	Analysis (Attach list if more space is needed)																		
Project Name			Carrier/Waybill Number								Special Instructions/ Conditions of Receipt												
Contract/Purchase Order/Quote No.			Matrix			Containers & Preservatives																	
Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Soil	Soil	Unpct	MESO	MNO	HCl	MNH	ZnO	MNH	VOC	CHLOROPHYLL	PET	DIAZINON	PCP	PCP	TOTAL OXY-MER	CERAMIC SIZE	TOTAL SOL SIZE	SURF.		
MR-SD-1-300	11/1/00	2:50PM	X									X	X	X	X	X	X	X			X	2 X 16 oz JARS	
MR-SD-1-300	11	11	X																		X	1 X 16 oz JAR.	
MR-SD-1-300	11	11	X																		X	1 PLASTIC JAR.	
TRIP BLANK																							
TEMP. BLANK																							
Possible Hazard Identification												Sample Disposal											
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown												<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)											
Turn Around Time Required												QC Requirements (Specify)											
<input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other																							
1. Relinquished By			Date			Time			1. Received By									Date	Time				
																		11/2/00					
2. Relinquished By			Date			Time			2. Received By									Date	Time				
3. Relinquished By			Date			Time			3. Received By									Date	Time				
Comments																							

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

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W

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0K020150 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 11/02/00

Work Order: DN76Q1AM

Date Extracted: 11/07/00

Dilution factor: 0.98

Date Analyzed: 11/07/00

Moisture %:17

QC Batch: 0313219

Client Sample Id: MR-SD-2-50

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/kg	O	J B
67-64-1	Acetone	5.4		
75-05-8	Acetonitrile	120		U
107-02-8	Acrolein	120		U
107-13-1	Acrylonitrile	120		U
107-05-1	Allyl chloride	12		U
71-43-2	Benzene	5.9		U
75-27-4	Bromodichloromethane	5.9		U
75-25-2	Bromoform	5.9		U
74-83-9	Bromomethane	12		U
78-93-3	2-Butanone (MEK)	24		U
75-15-0	Carbon disulfide	5.9		U
56-23-5	Carbon tetrachloride	5.9		U
108-90-7	Chlorobenzene	6.5		
75-00-3	Chloroethane	12		U
67-66-3	Chloroform	5.9		U
74-87-3	Chloromethane	12		U
126-99-8	Chloroprene	5.9		U
124-48-1	Dibromochloromethane	5.9		U
96-12-8	1,2-Dibromo-3-chloropropane	12		U
106-93-4	1,2-Dibromoethane (EDB)	5.9		U
74-95-3	Dibromomethane	5.9		U
110-57-6	trans-1,4-Dichloro-2-butene	5.9		U
75-71-8	Dichlorodifluoromethane	12		U
75-34-3	1,1-Dichloroethane	5.9		U
107-06-2	1,2-Dichloroethane	5.9		U
75-35-4	1,1-Dichloroethene	5.9		U
156-60-5	trans-1,2-Dichloroethene	3.0		U
78-87-5	1,2-Dichloropropane	5.9		U

FORM I

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:AOK020150 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 11/02/00

Work Order: DN7671AM

Date Extracted: 11/03/00

Dilution factor: 1

Date Analyzed: 11/11/00

Moisture #:17

QC Batch: 0318190

Client Sample Id: MR-SD-2-150

CONCENTRATION UNITS:

(ug/L or ug/kg) ug/kg

Q

67-64-1	Acetone	1300	B
75-05-8	Acetonitrile	6000	U
107-02-8	Acrolein	6000	U
107-13-1	Acrylonitrile	6000	U
71-43-2	Benzene	55	J
75-27-4	Bromodichloromethane	300	U
75-25-2	Bromoform	300	U
74-83-9	Bromomethane	600	U
75-15-0	Carbon disulfide	300	U
56-23-5	Carbon tetrachloride	300	U
108-90-7	Chlorobenzene	390	
126-99-8	Chloroprene	300	U
124-48-1	Dibromochloromethane	300	U
96-12-8	1,2-Dibromo-3-chloropropane	600	U
75-00-3	Chloroethane	600	U
67-66-3	Chloroform	300	U
74-87-3	Chlormethane	600	U
107-05-1	Allyl chloride	600	U
74-95-3	Dibromomethane	300	U
110-57-6	trans-1,4-Dichloro-2-butene	300	U
75-71-8	Dichlorodifluoromethane	600	U
75-34-3	1,1-Dichloroethane	300	U
107-06-2	1,2-Dichloroethane	300	U
75-35-4	1,1-Dichloroethene	300	U
156-60-5	trans-1,2-Dichloroethene	150	U
78-87-5	1,2-Dichloropropane	300	U
10061-01-5	cis-1,3-Dichloropropene	300	U
10061-02-6	trans-1,3-Dichloropropene	300	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:AOK020150 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 11/02/00

Work Order: DN77F1AM

Date Extracted: 11/07/00

Dilution factor: 0.92

Date Analyzed: 11/07/00

Moisture %:17

QC Batch: 0313219

Client Sample Id: MR-SD-1-50

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	22		U
75-05-8	Acetonitrile	110		U
107-02-8	Acrolein	110		U
107-13-1	Acrylonitrile	110		U
107-05-1	Allyl chloride	11		U
71-43-2	Benzene	5.5		U
75-27-4	Bromodichloromethane	5.5		U
75-25-2	Bromoform	5.5		U
74-83-9	Bromomethane	11		U
78-93-3	2-Butanone (MEK)	22		U
75-15-0	Carbon disulfide	5.5		U
56-23-5	Carbon tetrachloride	5.5		U
108-90-7	Chlorobenzene	5.5		U
75-00-3	Chloroethane	11		U
67-66-3	Chloroform	5.5		U
74-87-3	Chloromethane	11		U
126-99-8	Chloroprene	5.5		U
124-48-1	Dibromochloromethane	5.5		U
96-12-8	1,2-Dibromo-3-chloropropane	11		U
106-93-4	1,2-Dibromoethane (EDB)	5.5		U
74-95-3	Dibromomethane	5.5		U
110-57-6	trans-1,4-Dichloro-2-butene	5.5		U
75-71-8	Dichlorodifluoromethane	11		U
75-34-3	1,1-Dichloroethane	5.5		U
107-06-2	1,2-Dichloroethane	5.5		U
75-35-4	1,1-Dichloroethene	5.5		U
156-60-5	trans-1,2-Dichloroethene	2.8		U
78-87-5	1,2-Dichloropropane	5.5		U

FORM I

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:AOK020150 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 11/02/00

Work Order: DN77H1AM

Date Extracted: 11/07/00

Dilution factor: 0.91

Date Analyzed: 11/07/00

Moisture #:16

QC Batch: 0313219

Client Sample Id: MR-SD-1-150

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	22		U
75-05-8	Acetonitrile	110		U
107-02-8	Acrolein	110		U
107-13-1	Acrylonitrile	110		U
107-05-1	Allyl chloride	11		U
71-43-2	Benzene	5.4		U
75-27-4	Bromodichloromethane	5.4		U
75-25-2	Bromoform	5.4		U
74-83-9	Bromomethane	11		U
78-93-3	2-Butanone (MEK)	22		U
75-15-0	Carbon disulfide	5.4		U
56-23-5	Carbon tetrachloride	5.4		U
108-90-7	Chlorobenzene	5.4		U
75-00-3	Chloroethane	11		U
67-66-3	Chloroform	5.4		U
74-87-3	Chloromethane	11		U
126-99-8	Chloroprene	5.4		U
124-48-1	Dibromochloromethane	5.4		U
96-12-8	1,2-Dibromo-3-chloropropane	11		U
106-93-4	1,2-Dibromoethane (EDB)	5.4		U
74-95-3	Dibromomethane	5.4		U
110-57-6	trans-1,4-Dichloro-2-butene	5.4		U
75-71-8	Dichlorodifluoromethane	11		U
75-34-3	1,1-Dichloroethane	5.4		U
107-06-2	1,2-Dichloroethane	5.4		U
75-35-4	1,1-Dichloroethene	5.4		U
156-60-5	trans-1,2-Dichloroethene	2.7		U
78-87-5	1,2-Dichloropropane	5.4		U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:AOK020150 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 11/02/00

Work Order: DN77K1AK

Date Extracted: 11/07/00

Dilution factor: 1.09

Date Analyzed: 11/07/00

Moisture †:15

QC Batch: 0313219

Client Sample Id: MR-SD-1-300

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	26	□
75-05-8	Acetonitrile	130	□
107-02-8	Acrolein	130	□
107-13-1	Acrylonitrile	130	□
107-05-1	Allyl chloride	13	□
71-43-2	Benzene	6.4	□
75-27-4	Bromodichloromethane	6.4	□
75-25-2	Bromoform	6.4	□
74-83-9	Bromomethane	13	□
78-93-3	2-Butanone (MEK)	26	□
75-15-0	Carbon disulfide	6.4	□
56-23-5	Carbon tetrachloride	6.4	□
108-90-7	Chlorobenzene	6.4	□
75-00-3	Chloroethane	13	□
67-66-3	Chloroform	6.4	□
74-87-3	Chloromethane	13	□
126-99-8	Chloroprene	6.4	□
124-48-1	Dibromochloromethane	6.4	□
96-12-8	1,2-Dibromo-3-chloropropane	13	□
106-93-4	1,2-Dibromoethane (EDB)	6.4	□
74-95-3	Dibromomethane	6.4	□
110-57-6	trans-1,4-Dichloro-2-butene	6.4	□
75-71-8	Dichlorodifluoromethane	13	□
75-34-3	1,1-Dichloroethane	6.4	□
107-06-2	1,2-Dichloroethane	6.4	□
75-35-4	1,1-Dichloroethene	6.4	□
156-60-5	trans-1,2-Dichloroethene	3.2	□
78-87-5	1,2-Dichloropropane	6.4	□

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0K020150 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.16 / g

Date Received: 11/02/00

Work Order: DN77F1AC

Date Extracted: 11/02/00

Dilution factor: 1

Date Analyzed: 11/20/00

Moisture %:17

QC Batch: 0307324

Client Sample Id: MR-SD-1-50

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q	U
83-32-9	Acenaphthene	400			
208-96-8	Acenaphthylene	400			
98-86-2	Acetophenone	400			
53-96-3	2-Acetylaminofluorene	4000			
92-67-1	4-Aminobiphenyl	1900			
62-53-3	Aniline	400			
120-12-7	Anthracene	400			
56-55-3	Benzo(a)anthracene	400			
205-99-2	Benzo(b)fluoranthene	400			
207-08-9	Benzo(k)fluoranthene	400			
65-85-0	Benzoic acid	1900			
191-24-2	Benzo(ghi)perylene	400			
50-32-8	Benzo(a)pyrene	400			
100-51-6	Benzyl alcohol	400			
111-91-1	bis(2-Chloroethoxy)methane	400			
111-44-4	bis(2-Chloroethyl) ether	400			
108-60-1	bis(2-Chloro-1-methylethyl)	400			
117-81-7	bis(2-Ethylhexyl) phthalate	400			
101-55-3	4-Bromophenyl phenyl ether	400			
85-68-7	Butyl benzyl phthalate	400			
106-47-8	4-Chloroaniline	400			
59-50-7	4-Chloro-3-methylphenol	400			
91-58-7	2-Chloronaphthalene	400			
95-57-8	2-Chlorophenol	400			
7005-72-3	4-Chlorophenyl phenyl ether	400			
218-01-9	Chrysene	400			
2303-16-4	Diallate	790			
53-70-3	Dibenz(a,h)anthracene	400			

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0K020150 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.16 / g

Date Received: 11/02/00

Work Order: DN77F1AC

Date Extracted: 11/02/00

Dilution factor: 1

Date Analyzed: 11/20/00

Moisture %:17

QC Batch: 0307324

Client Sample Id: MR-SD-1-50

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
132-64-9	Dibenzofuran	400		U
84-74-2	Di-n-butyl phthalate	400		U
95-50-1	1,2-Dichlorobenzene	400		U
541-73-1	1,3-Dichlorobenzene	400		U
106-46-7	1,4-Dichlorobenzene	400		U
91-94-1	3,3'-Dichlorobenzidine	1900		U
120-83-2	2,4-Dichlorophenol	400		U
87-65-0	2,6-Dichlorophenol	400		U
84-66-2	Diethyl phthalate	400		U
297-97-2	Thionazin	1900		U
60-51-5	Dimethoate	790		U
60-11-7	p-Dimethylaminoazobenzene	790		U
57-97-6	7,12-Dimethylbenz(a)anthracene	790		U
119-93-7	3,3'-Dimethylbenzidine	1900		U
105-67-9	2,4-Dimethylphenol	400		U
131-11-3	Dimethyl phthalate	400		U
117-84-0	Di-n-octyl phthalate	400		U
99-65-0	1,3-Dinitrobenzene	400		U
534-52-1	4,6-Dinitro-2-methylphenol	1900		U
51-28-5	2,4-Dinitrophenol	1900		U
121-14-2	2,4-Dinitrotoluene	400		U
606-20-2	2,6-Dinitrotoluene	400		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	790		U
122-39-4	Diphenylamine	400		U
298-04-4	Disulfoton	1900		U
62-50-0	Ethyl methanesulfonate	400		U
52-85-7	Famphur	4000		U
206-44-0	Fluoranthene	400		U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:AOK020150 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.04 / g

Date Received: 11/02/00

Work Order: DN77H1AC

Date Extracted: 11/02/00

Dilution factor: 1

Date Analyzed: 11/20/00

Moisture %:16

QC Batch: 0307324

Client Sample Id: MR-SD-1-150

CONCENTRATION UNITS:
(ug/L or ug/kg) ug/kg Q

CAS NO.	COMPOUND		
83-32-9	Acenaphthene	390	U
208-96-8	Acenaphthylene	390	U
98-86-2	Acetophenone	390	U
53-96-3	2-Acetylaminofluorene	3900	U
92-67-1	4-Aminobiphenyl	1900	U
62-53-3	Aniline	390	U
120-12-7	Anthracene	390	U
56-55-3	Benz(a)anthracene	390	U
205-99-2	Benz(b)fluoranthene	390	U
207-08-9	Benz(k)fluoranthene	390	U
65-85-0	Benzoic acid	1900	U
191-24-2	Benzo(ghi)perylene	390	U
50-32-8	Benzo(a)pyrene	390	U
100-51-6	Benzyl alcohol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
111-44-4	bis(2-Chloroethyl) ether	390	U
108-60-1	bis(2-Chloro-1-methylethyl)	390	U
117-81-7	bis(2-Ethylhexyl) phthalate	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
85-68-7	Butyl benzyl phthalate	390	U
106-47-8	4-Chloroaniline	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-58-7	2-Chloronaphthalene	390	U
95-57-8	2-Chlorophenol	390	U
7005-72-3	4-Chlorophenyl phenyl ether	390	U
218-01-9	Chrysene	390	U
2303-16-4	Diallate	780	U
53-70-3	Dibenz(a,h)anthracene	390	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Lab Sample ID:A0K020150 005

Sample WT/Vol: 30.04 / g
Work Order: DN77H1AC
Dilution factor: 1
Moisture %:16Date Received: 11/02/00
Date Extracted: 11/02/00
Date Analyzed: 11/20/00

QC Batch: 0307324

Client Sample Id: MR-SD-1-150

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
132-64-9	Dibenzofuran	390	U
84-74-2	Di-n-butyl phthalate	390	U
95-50-1	1,2-Dichlorobenzene	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
120-83-2	2,4-Dichlorophenol	390	U
87-65-0	2,6-Dichlorophenol	390	U
84-66-2	Diethyl phthalate	390	U
297-97-2	Thionazin	1900	U
60-51-5	Dimethoate	780	U
60-11-7	p-Dimethylaminoazobenzene	780	U
57-97-6	7,12-Dimethylbenz(a)anthracene	780	U
119-93-7	3,3'-Dimethylbenzidine	1900	U
105-67-9	2,4-Dimethylphenol	390	U
131-11-3	Dimethyl phthalate	390	U
117-84-0	Di-n-octyl phthalate	390	U
99-65-0	1,3-Dinitrobenzene	390	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
51-28-5	2,4-Dinitrophenol	1900	U
121-14-2	2,4-Dinitrotoluene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	780	U
122-39-4	Diphenylamine	390	U
298-04-4	Disulfoton	1900	U
62-50-0	Ethyl methanesulfonate	390	U
52-85-7	Famphur	3900	U
206-44-0	Fluoranthene	390	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0K020150 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.14 / g

Date Received: 11/02/00

Work Order: DN77K1AC

Date Extracted: 11/02/00

Dilution factor: 1

Date Analyzed: 11/20/00

Moisture %:15

QC Batch: 0307324

Client Sample Id: MR-SD-1-300

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	390	U
208-96-8	Acenaphthylene	390	U
98-86-2	Acetophenone	390	U
53-96-3	2-Acetylaminofluorene	3900	U
92-67-1	4-Aminobiphenyl	1900	U
62-53-3	Aniline	390	U
120-12-7	Anthracene	390	U
56-55-3	Benzo(a)anthracene	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
65-85-0	Benzoic acid	1900	U
191-24-2	Benzo(ghi)perylene	390	U
50-32-8	Benzo(a)pyrene	390	U
100-51-6	Benzyl alcohol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
111-44-4	bis(2-Chloroethyl) ether	390	U
108-60-1	bis(2-Chloro-1-methylethyl)	390	U
117-81-7	bis(2-Ethylhexyl) phthalate	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
85-68-7	Butyl benzyl phthalate	390	U
106-47-8	4-Chloroaniline	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-58-7	2-Chloronaphthalene	390	U
95-57-8	2-Chlorophenol	390	U
7005-72-3	4-Chlorophenyl phenyl ether	390	U
218-01-9	Chrysene	390	U
2303-16-4	Diallate	780	U
53-70-3	Dibenz(a,h)anthracene	390	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0K020150 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.14 / g

Date Received: 11/02/00

Work Order: DN77K1AC

Date Extracted: 11/02/00

Dilution factor: 1

Date Analyzed: 11/20/00

Moisture %:15

QC Batch: 0307324

Client Sample Id: MR-SD-1-300

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/kg	Q
132-64-9	Dibenzofuran	390	U
84-74-2	Di-n-butyl phthalate	390	U
95-50-1	1,2-Dichlorobenzene	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
120-83-2	2,4-Dichlorophenol	390	U
87-65-0	2,6-Dichlorophenol	390	U
84-66-2	Diethyl phthalate	390	U
297-97-2	Thionazin	1900	U
60-51-5	Dimethoate	780	U
60-11-7	p-Dimethylaminoazobenzene	780	U
57-97-6	7,12-Dimethylbenz(a)anthracene	780	U
119-93-7	3,3'-Dimethylbenzidine	1900	U
105-67-9	2,4-Dimethylphenol	390	U
131-11-3	Dimethyl phthalate	390	U
117-84-0	Di-n-octyl phthalate	390	U
99-65-0	1,3-Dinitrobenzene	390	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
51-28-5	2,4-Dinitrophenol	1900	U
121-14-2	2,4-Dinitrotoluene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	780	U
122-39-4	Diphenylamine	390	U
298-04-4	Disulfoton	1900	U
62-50-0	Ethyl methanesulfonate	390	U
52-85-7	Famphur	3900	U
206-44-0	Fluoranthene	390	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO
Method: SW846 8081A
Pesticides (8081A)

Lab Sample ID:A0K020150 004

Sample WT/Vol: 30.1 / g
Work Order: DN77F1AD
Dilution factor: 1
Moisture %:17Date Received: 11/02/00
Date Extracted: 11/03/00
Date Analyzed: 11/09/00

QC Batch: 0307311

Client Sample Id: MR-SD-1-50

CONCENTRATION UNITS:
(ug/L or ug/kg) ug/kg

CAS NO.	COMPOUND	2.0	0	U
309-00-2	Aldrin	2.0	0	U
319-84-6	alpha-BHC	2.0	0	U
319-85-7	beta-BHC	2.0	0	U
319-86-8	delta-BHC	2.0	0	U
58-89-9	gamma-BHC (Lindane)	2.0	0	U
57-74-9	Chlordane (technical)	20	0	U
510-15-6	Chlorobenzilate	40	0	U
72-54-8	4,4'-DDD	2.0	0	U
72-55-9	4,4'-DDE	2.0	0	U
50-29-3	4,4'-DDT	2.0	0	U
2303-16-4	Diallate	40	0	U
60-57-1	Dieldrin	2.0	0	U
959-98-8	Endosulfan I	2.0	0	U
33213-65-9	Endosulfan II	2.0	0	U
1031-07-8	Endosulfan sulfate	2.0	0	U
72-20-8	Endrin	2.0	0	U
7421-93-4	Endrin aldehyde	2.0	0	U
76-44-8	Heptachlor	2.0	0	U
1024-57-3	Heptachlor epoxide	2.0	0	U
465-73-6	Isodrin	4.0	0	U
143-50-0	Kepone	40	0	U
72-43-5	Methoxychlor	4.0	0	U
8001-35-2	Toxaphene	80	0	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO
Method: SW846 8081A
Pesticides (8081A)

Lab Sample ID:A0K020150 005

Sample WT/Vol: 30.01 / g
Work Order: DN77H1AD
Dilution factor: 1
Moisture %:16Date Received: 11/02/00
Date Extracted: 11/03/00
Date Analyzed: 11/09/00

QC Batch: 0307311

Client Sample Id: MR-SD-1-150

CONCENTRATION UNITS:
(ug/L or ug/kg) ug/kg

CAS NO.	COMPOUND	Q	U
309-00-2	Aldrin	2.0	U
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
57-74-9	Chlordane (technical)	20	U
510-15-6	Chlorobenzilate	39	U
72-54-8	4,4'-DDD	2.0	U
72-55-9	4,4'-DDE	2.0	U
50-29-3	4,4'-DDT	2.0	U
2303-16-4	Diallate	39	U
60-57-1	Dieldrin	2.0	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	2.0	U
1031-07-8	Endosulfan sulfate	2.0	U
72-20-8	Endrin	2.0	U
7421-93-4	Endrin aldehyde	2.0	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
465-73-6	Isodrin	3.9	U
143-50-0	Kepone	39	U
72-43-5	Methoxychlor	3.9	U
8001-35-2	Toxaphene	80	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO
Method: SW846 8081A
Pesticides (8081A)

Lab Sample ID:A0K020150 006

Sample WT/Vol: 30.05 / g

Date Received: 11/02/00

Work Order: DN77K1AD

Date Extracted: 11/03/00

Dilution factor: 1

Date Analyzed: 11/09/00

Moisture %:15

QC Batch: 0307311

Client Sample Id: MR-SD-1-300

CONCENTRATION UNITS:

(ug/L or ug/kg) ug/kg

Q

309-00-2	Aldrin	2.0	U
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
57-74-9	Chlordane (technical)	20	U
510-15-6	Chlorobenzilate	39	U
72-54-8	4,4'-DDD	2.0	U
72-55-9	4,4'-DDE	2.0	U
50-29-3	4,4'-DDT	2.0	U
2303-16-4	Diallate	39	U
60-57-1	Dieldrin	2.0	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	2.0	U
1031-07-8	Endosulfan sulfate	2.0	U
72-20-8	Endrin	2.0	U
7421-93-4	Endrin aldehyde	2.0	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
465-73-6	Isodrin	3.9	U
143-50-0	Kepone	39	U
72-43-5	Methoxychlor	3.9	U
8001-35-2	Toxaphene	79	U

**Chain of
Custody Record**

**N.B SITE CONTACT
KIRIT BHATT, TEL. 816-506-4701.**



11

OUA-4124 0787

Client TETRA TECH EM INC.	Project Manager LISA GRACZYK	Date 10/24/2000	Chain of Custody Number 48637
Address 800 EAST RANDOLPH DR. 4700 SUIT	Telephone Number (Area Code)/Fax Number (312) 856-4700	Lab Number (330) 966-7290	Page <u>1</u> of <u>1</u>
City CHICAGO, IL 60601	Site Contact KIRIT BHATT	Lab Contact JEFF SMITH	Analysis (Attach list if more space is needed)
Project Name MISSISSIPPI RIVER, ST. LOUIS	Carrier/Waybill Number FEDEX		

Contract/Purchase Order/Quote No.	Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix		Containers & Preservatives						Special Instructions/ Conditions of Receipt	
				#	3	1	2	3	4	5	6	7	
	SEDIMENT PDA-5-R 60'	10/24/00	2:40PM	X		X							1 X 203 JAR.
"	PDA-5-R 60'	10/24/00	2:45PM	X		X							2X16 oz JARS.
"	PDA-5-R 60'	10/24/00	2:45PM	X									1X16 oz JAR.
"	PDA-5-R 60'	10/24/00	2:45PM	X									1 PLASTIC CUP WITH SCREW TOP
	SEDIMENT ENCORE PDA-5R-1	10/24/00	2:55	X									} 3 ENCORES - SAME SAMPLE
"	" PDA-5-R-2	10/24/00	2:55	X									
"	PDA-5-R-3	10/24/00	2:55	X									

Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 3 months)	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposed By Lab <input type="checkbox"/> Archive For _____ Months		

Turn Around Time Required

24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

QC Requirements (Specify)

1. Relinquished By KMF Date 10/24/00 Time 6:45 1. Received By Donne Sanders Date 10-25-00 Time 9:00

2. Relinquished By _____ Date _____ Time _____ 2. Received By _____ Date _____ Time _____

3. Relinquished By _____ Date _____ Time _____ 3. Received By _____ Date _____ Time _____

Comments _____

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0J250253 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5.68 / g

Date Received: 10/25/00

Work Order: DNQ631AK

Date Extracted: 10/26/00

Dilution factor: 0.88

Date Analyzed: 11/04/00

Moisture %:16

QC Batch: 0307533

Client Sample Id: SEDIMENT PDA-5-R 60'

CONCENTRATION UNITS:

(ug/L or ug/kg) ug/kg

Q

67-64-1	Acetone	3300	B
75-05-8	Acetonitrile	5200	U
107-02-8	Acrolein	5200	U
107-13-1	Acrylonitrile	5200	U
71-43-2	Benzene	100	J
75-27-4	Bromodichloromethane	260	U
75-25-2	Bromoform	260	U
74-83-9	Bromomethane	520	U
75-15-0	Carbon disulfide	260	U
56-23-5	Carbon tetrachloride	260	U
108-90-7	Chlorobenzene	450	U
126-99-8	Chloroprene	260	U
124-48-1	Dibromochloromethane	260	U
96-12-8	1,2-Dibromo-3-chloropropane	520	U
75-00-3	Chloroethane	520	U
67-66-3	Chloroform	260	U
74-87-3	Chloromethane	520	U
107-05-1	Allyl chloride	520	U
74-95-3	Dibromomethane	260	U
110-57-6	trans-1,4-Dichloro-2-butene	260	U
75-71-8	Dichlorodifluoromethane	520	U
75-34-3	1,1-Dichloroethane	260	U
107-06-2	1,2-Dichloroethane	110	J
75-35-4	1,1-Dichloroethene	260	U
156-60-5	trans-1,2-Dichloroethene	130	U
78-87-5	1,2-Dichloropropane	260	U
10061-01-5	cis-1,3-Dichloropropene	260	U
10061-02-6	trans-1,3-Dichloropropene	260	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:AOL050115 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 10/25/00

Work Order: DQTELLAC

Date Extracted: 12/05/00

Dilution factor: 2

Date Analyzed: 12/08/00

Moisture %:16

QC Batch: 0340220

Client Sample Id: SEDIMENT PDA-5-R 60'

CONCENTRATION UNITS:
(ug/L or ug/kg) ug/kg

CAS NO.	COMPOUND		Q
83-32-9	Acenaphthene	780	U
208-96-8	Acenaphthylene	780	U
98-86-2	Acetophenone	780	U
53-96-3	2-Acetylaminofluorene	7800	U
92-67-1	4-Aminobiphenyl	3800	U
62-53-3	Aniline	3900	
120-12-7	Anthracene	780	U
56-55-3	Benzo(a)anthracene	780	U
205-99-2	Benzo(b)fluoranthene	780	U
207-08-9	Benzo(k)fluoranthene	780	U
65-85-0	Benzoic acid	3800	U
191-24-2	Benzo(ghi)perylene	780	U
50-32-8	Benzo(a)pyrene	780	U
100-51-6	Benzyl alcohol	780	U
111-91-1	bis(2-Chloroethoxy)methane	780	U
111-44-4	bis(2-Chloroethyl)ether	780	U
108-60-1	bis(2-Chloro-1-methylethyl)	780	U
117-81-7	bis(2-Ethylhexyl) phthalate	780	U
101-55-3	4-Bromophenyl phenyl ether	780	U
85-68-7	Butyl benzyl phthalate	780	U
106-47-8	4-Chloroaniline	3300	
59-50-7	4-Chloro-3-methylphenol	780	U
91-58-7	2-Chloronaphthalene	780	U
95-57-8	2-Chlorophenol	400	J
7005-72-3	4-Chlorophenyl phenyl ether	780	U
218-01-9	Chrysene	780	U
2303-16-4	Diallate	1600	U
53-70-3	Dibenz(a,h)anthracene	780	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO
Method: SW846 8081A
Pesticides (8081A)

Lab Sample ID:A0J250253 001

Sample WT/Vol: 30.19 / g
Work Order: DNQ631AD
Dilution factor: 2
Moisture %:16Date Received: 10/25/00
Date Extracted: 10/26/00
Date Analyzed: 11/11/00

QC Batch: 0300119

Client Sample Id: SEDIMENT PDA-5-R 60'

CONCENTRATION UNITS:
(ug/L or ug/kg) ug/kg

CAS NO.	COMPOUND		O
309-00-2	Aldrin	4.0	U
319-84-6	alpha-BHC	4.0	U
319-85-7	beta-BHC	4.0	U
319-86-8	delta-BHC	44	*** PG
58-89-9	gamma-BHC (Lindane)	4.0	U
57-74-9	Chlordane (technical)	40	U
510-15-6	Chlorobenzilate	21	J *** PG
72-54-8	4,4'-DDD	14	
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	4.0	U
2303-16-4	Diallate	78	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	4.0	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
76-44-8	Heptachlor	4.0	U
1024-57-3	Heptachlor epoxide	4.0	U
465-73-6	Isodrin	7.8	U
143-50-0	Kepone	78	U
72-43-5	Methoxychlor	7.8	U
8001-35-2	Toxaphene	160	U

Chain of Custody Record

12
Quanterra

2UA-4124 0797

Client	TETRA TECH EM INC			Project Manager	LISA G.RACZYK		
Address	800 EAST RANDOLPH DR.			Telephone Number (Area Code/Fax Number)	1026/00		
City	CHICAGO	State	IL	Lab Contact	Lab Number		
Zip Code	60601	Carrier/Mail Number	FEDEX	Analyst (Attach Net If More Space Is Needed)	(330)966-7670		
Project Name	MISSISSIPPI RIVER			Special Instructions/Conditions of Receipt	Page 1 of 1		
Contract/Purchase Order/Quote No.							

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix	Containers & Preservatives	
				Container	Preservative
PDA - 8 60' (soft bottom)	10/25/00	10:00AM	X	HORN	
PDA - 2 60' "	10/25/00	10:00AM	X	HORN	
PDA - 2 60' "	10/25/00	10:00AM	X	HORN	
PDA - 2 60' "	10/25/00	10:00AM	X	HORN	
PDA - 8 60' (over most leached)	10/26/00	10:25AM	X	HORN	
PDA - 8 60' "	10/26/00	10:25AM	X	HORN	
PDA - 8 60' "	10/26/00	10:25AM	X	HORN	
PDA - 8 60' "	10/26/00	10:25AM	X	HORN	
PDA - 8 60' "	10/26/00	10:25AM	X	HORN	
PDA - 8 60' "	10/26/00	10:25AM	X	HORN	
TRIP BLANK	10/26/00	-	X		
TEMPERATURE BLANK					
Possible Hazard Identification				Sample Disposal	
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client
Turn Around Time Required				<input type="checkbox"/> Disposed By Lab	<input type="checkbox"/> Archived For _____ Months
<input type="checkbox"/> 24 Hours				<input type="checkbox"/> Other	(A box may be checked if samples are retained longer than 3 months)
<input type="checkbox"/> 48 Hours				Date	Date
<input type="checkbox"/> 7 Days				Time	Time
<input type="checkbox"/> 14 Days					
<input type="checkbox"/> 21 Days					

1. Retrieved By	John Sanders	1. Submitted By	John Sanders
2. Retrieved By		2. Received By	
3. Retrieved By		3. Received By	
Comments		Date	Date
		Time	Time

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0J280103 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 4 / g

Date Received: 10/27/00

Work Order: DN06R1AC

Date Extracted: 11/03/00

Dilution factor: 1

Date Analyzed: 11/06/00

QC Batch: 0310110

Client Sample Id: PDA-2 60' (SOFT BOTTOM)

Soil Extract Vol: 10 / mL

CONCENTRATION UNITS:

(ug/L or ug/kg) ug/kg

CAS NO.	COMPOUND		O
67-64-1	Acetone	5800	B
75-05-8	Acetonitrile	22000	U
107-02-8	Acrolein	22000	U
107-13-1	Acrylonitrile	22000	U
71-43-2	Benzene	140	J
75-27-4	Bromodichloromethane	1100	U
75-25-2	Bromoform	1100	U
74-83-9	Bromomethane	2200	U
75-15-0	Carbon disulfide	1100	U
56-23-5	Carbon tetrachloride	1100	U
108-90-7	Chlorobenzene	10000	
126-99-8	Chloroprene	1100	U
124-48-1	Dibromochloromethane	1100	U
96-12-8	1,2-Dibromo-3-chloropropane	2200	U
75-00-3	Chloroethane	2200	U
67-66-3	Chloroform	1100	U
74-87-3	Chlormethane	2200	U
107-05-1	Allyl chloride	2200	U
74-95-3	Dibromomethane	1100	U
110-57-6	trans-1,4-Dichloro-2-butene	1100	U
75-71-8	Dichlorodifluoromethane	2200	U
75-34-3	1,1-Dichloroethane	1100	U
107-06-2	1,2-Dichloroethane	1100	U
75-35-4	1,1-Dichloroethene	1100	U
156-60-5	trans-1,2-Dichloroethene	550	U
78-87-5	1,2-Dichloropropane	1100	U
10061-01-5	cis-1,3-Dichloropropene	1100	U
10061-02-6	trans-1,3-Dichloropropene	1100	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0J280103 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 4.52 / g

Date Received: 10/27/00

Work Order: DN06T1AK

Date Extracted: 10/28/00

Dilution factor: 1.11

Date Analyzed: 11/08/00

Moisture #:19

QC Batch: 0314181

Client Sample Id: PDA-8 60' (NORTH MOST LOCATION)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	1400	B	
75-05-8	Acetonitrile	6800	U	
107-02-8	Acrolein	6800	U	
107-13-1	Acrylonitrile	6800	U	
71-43-2	Benzene	110	J	
75-27-4	Bromodichloromethane	340	U	
75-25-2	Bromoform	340	U	
74-83-9	Bromomethane	680	U	
75-15-0	Carbon disulfide	340	U	
56-23-5	Carbon tetrachloride	340	U	
108-90-7	Chlorobenzene	700		
126-99-8	Chloroprene	340	U	
124-48-1	Dibromochloromethane	340	U	
96-12-8	1,2-Dibromo-3-chloropropane	680	U	
75-00-3	Chloroethane	680	U	
67-66-3	Chloroform	340	U	
74-87-3	Chloromethane	680	U	
107-05-1	Allyl chloride	680	U	
74-95-3	Dibromomethane	340	U	
110-57-6	trans-1,4-Dichloro-2-butene	340	U	
75-71-8	Dichlorodifluoromethane	680	U	
75-34-3	1,1-Dichloroethane	340	U	
107-06-2	1,2-Dichloroethane	41	J	
75-35-4	1,1-Dichloroethene	340	U	
156-60-5	trans-1,2-Dichloroethene	170	U	
78-87-5	1,2-Dichloropropane	340	U	
10061-01-5	cis-1,3-Dichloropropene	340	U	
10061-02-6	trans-1,3-Dichloropropene	340	U	

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:AOL050115 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 10/27/00

Work Order: DQTEM1AC

Date Extracted: 12/05/00

Dilution factor: 1

Date Analyzed: 12/08/00

Moisture %:43

QC Batch: 0340220

Client Sample Id: PDA-2 60' (SOFT BOTTOM)

CONCENTRATION UNITS:
(ug/L or ug/kg) ug/kg

CAS NO.	COMPOUND		Q
83-32-9	Acenaphthene	580	U
208-96-8	Acenaphthylene	580	U
98-86-2	Acetophenone	580	U
53-96-3	2-Acetylaminofluorene	5800	U
92-67-1	4-Aminobiphenyl	2800	U
62-53-3	Aniline	210	J
120-12-7	Anthracene	580	U
56-55-3	Benzo(a)anthracene	580	U
205-99-2	Benzo(b)fluoranthene	580	U
207-08-9	Benzo(k)fluoranthene	580	U
65-85-0	Benzoic acid	2800	U
191-24-2	Benzo(ghi)perylene	580	U
50-32-8	Benzo(a)pyrene	580	U
100-51-6	Benzyl alcohol	580	U
111-91-1	bis(2-Chloroethoxy)methane	580	U
111-44-4	bis(2-Chloroethyl) ether	580	U
108-60-1	bis(2-Chloro-1-methylethyl)	580	U
117-81-7	bis(2-Ethylhexyl) phthalate	580	U
101-55-3	4-Bromophenyl phenyl ether	580	U
85-68-7	Butyl benzyl phthalate	580	U
106-47-8	4-Chloroaniline	720	
59-50-7	4-Chloro-3-methylphenol	580	U
91-58-7	2-Chloronaphthalene	580	U
95-57-8	2-Chlorophenol	580	U
7005-72-3	4-Chlorophenyl phenyl ether	580	U
218-01-9	Chrysene	580	U
2303-16-4	Diallate	1200	U
53-70-3	Dibenz(a,h)anthracene	580	U

Chain of
Custody Record

JUA-4124 0797

Client

Tetra Tech EMI

Address

200 E. Randolph

City

Chicago

State

IL

Zip Code

60601

Project Manager

Lisa Graczyk

Telephone Number (Area Code)/Fax Number

312 856-8700

Date

11/3/00

Chain of Custody Number

42773

Lab Number

380/966-7290

Page _____ of _____

Site Contact

Kirit Bhatt

Lab Contact

Jeff Smith

Carrier/Waybill Number

Project Name

Contract/Purchase Order/Quote No.

Matrix

Containers &
Preservatives

Analysis (Attach list if
more space is needed)

Special Instructions/
Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	4	6oz	8oz	16oz	32oz	H2O2	H2O	HCl	NaOH	NH4OH	NOCS	SOC's	PEST/SOCIA + 8W	Herbicides	PCP TCC	Grain size	Total Solids	at	of	yes
MR-SD-6-25	11/3/00	11:50	X		X								X								4	3 Encore, 1 20z
MR-SD-6-25		11:50	X		X										X X X X						2	2x16oz
MR-SD-6-25		11:50	X		X													X			1	1x16oz
MR-SD-6-25		11:50	X		X													X			1	1 plastic
Trip Blank		—																				
MR-SD-6-98 90		11:35	X		X									X							4	3 Encore, 1 20z
MR-SD-6-98 90		11:35	X		X										X X X X						2	2x16oz
MR-SD-6-98 90		11:35	X		X												X			1	1x16oz	
MR-SD-6-90		11:35	X		X												X			1	1 plastic	
Field Blank		—																				
Rinsate		12:00	X		X										X X X X					6	6x1L Amber	
Rinsate		12:00	X			X								X			X			4	4x40mL vials	

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal

Return To Client Disposal By Lab Archive For _____ Months

(A fee may be assessed if samples are retained
longer than 3 months)

Turn Around Time Required

24 Hours 48 Hours 7 Days 14 Days 21 Days Other

QC Requirements (Specify)

1. Relinquished By

David Bear

Date

11/3/00

Time

FEPEK

1. Received By

Chris Sanders

Date

11/4/00

Time

10:35 AM

2. Relinquished By

Date

Time

2. Received By

Date

Time

3. Relinquished By

Date

Time

3. Received By

Date

Time

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

STL North Canton

Chain of
Custody Record

5-5

Quanterra

QUA-4124 0797

15

Client Tetra Tech Emi		Project Manager Lisa Graczyk		Date 11/3/00	Chain of Custody Number 42774											
Address 200 E. Randolph		Telephone Number (Area Code)/Fax Number 312) 856 - 8700		Lab Number 330) 966-7290	Page _____ of _____											
City Chicago	State IL	Zip Code 60601	Site Contact Kirit Bhatt	Lab Contact Jeff Smith	Analysis (Attach list if more space is needed)											
Project Name		Carrier/Waybill Number														
Contract/Purchase Order/Quote No.		Matrix	Containers & Preservatives		Special Instructions/ Conditions of Receipt											
Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	1000 ppm	500 ppm		50 ppm	1000 mg/L	500 mg/L	50 mg/L	1000 µg/L	500 µg/L	50 µg/L	PCP TOL	Carcinogen List	Total Solids	
MR-SD-5-1	11/3/00	10:35	X	X					X						4 3 Encore, 1 2oz	
MR-SD-5-1		10:35	X	X						X	X	X			2 2x16 oz	
MR-SD-5-1		10:35	X	X								X			1 1x16 oz	
MR-SD-5-1		10:35	X	X								X			1 1 plastic	
MR-SD-5-315		11:15	X	X					X						4 3 Encore, 1 2oz	
MR-SD-5-315		11:15	X	X						X	X	X			2 2x16 oz	
MR-SD-5-315		11:15	X	X								X			1 1x16 oz	
MR-SD-5-315		11:15	X	X								X			1 1 plastic	
MR-SD-5-150		11:00	X	X					X						4 3 Encore, 1 2oz	
MR-SD-5-150		11:00	X	X						X	X	X			2 2x16 oz	
MR-SD-5-150		11:00	X	X								X			1 1x16 oz	
MR-SD-5-150		11:10	X	X								X			1 1 plastic	
Possible Hazard Identification		Sample Disposal												(A fee may be assessed if samples are retained longer than 3 months)		
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months														
Turn Around Time Required																
<input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____																
1. Relinquished By <i>Daniel Jem</i>		Date 11/3/00	Time PED RX	1. Received By <i>Don Sanders</i>		Date 11-4-00	Time 10:35 AM									
2. Relinquished By		Date	Time	2. Received By		Date	Time									
3. Relinquished By		Date	Time	3. Received By		Date	Time									
Comments																

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

STL North Carton

1150

Chain of
Custody Record

S-7

Quanterra

QUA-4124 0797

16

Client Tetra Tech EMI		Project Manager Lisa Graczyk		Date 11/3/00	Chain of Custody Number 42772		
Address 200 E. Randolph		Telephone Number (Area Code)/Fax Number 312/956-8700		Lab Number 330/966-7270	Page _____ of _____		
City Chicago	State IL	Zip Code 60601	Site Contact Kirin Blatt	Lab Contact Jeff Smith	Analysis (Attach list if more space is needed)		
Project Name		Carrier/Waybill Number					
Contract/Purchase Order/Quote No.		Matrix		Containers & Preservatives		Special Instructions/ Conditions of Receipt	
Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Spec Sed Sst	Unsp H2SO4 HNO3 HCl NaOH ZnO/HCl	Y/CS S SOL PEST/INFECT/HM	Therm Bags Tow Gra Total Sols	Lot #s
MR-SD-7-150	11/3/00	12:40	X	X	X		4 3 Encore, 1 203
MR-SD-7-150		12:40	X	X	XX	XX	2 2x1603
MR-SD-7-150		12:40	X	X		X	1 1x1603
MR-SD-7-150		12:40	X	X		X	1 1 plastic
MR-SD-7-280		12:55	X	X	X		4 3 Encore 1 203
MR-SD-7-280		12:55	X	X	XX	XX	2 2x1603
MR-SD-7-280		12:55	X	X		X	1 1x1603
MR-SD-7-280		12:55	X	X		X	1 1 plastic
MR-SD-7-45		12:24	X	X	X		4 3 Encore 1 203
MR-SD-7-45		12:24	X	X	XX	XX	2 2x1603
MR-SD-7-45		12:24	X	X		X	1 1x1603
MR-SD-7-45		12:24	X	X		X	1 1 plastic
Possible Hazard Identification		Sample Disposal		(A fee may be assessed if samples are retained longer than 3 months)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Turn Around Time Required		QC Requirements (Specify)					
<input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____							
1. Relinquished By <i>Drew Dean</i>		Date 11/3/00	Time 1035 AM	1. Received By <i>Anne Sanders</i>	Date 11-4-00	Time 1035 AM	
2. Relinquished By		Date	Time	2. Received By	Date	Time	
3. Relinquished By		Date	Time	3. Received By	Date	Time	
Comments							

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

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TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:AOK040131 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 11/04/00

Work Order: DPDD91AL

Date Extracted: 11/13/00

Dilution factor: 0.94

Date Analyzed: 11/13/00

Moisture %:17

QC Batch: 0319199

Client Sample Id: MR-SD-6-90

CONCENTRATION UNITS:

(ug/L or ug/kg) ug/kg

CAS NO.	COMPOUND	ug/kg	Q
67-64-1	Acetone	35	B
75-05-8	Acetonitrile	110	U
107-02-8	Acrolein	110	U
107-13-1	Acrylonitrile	110	U
107-05-1	Allyl chloride	11	U
71-43-2	Benzene	0.72	J
75-27-4	Bromodichloromethane	5.6	U
75-25-2	Bromoform	5.6	U
74-83-9	Bromomethane	11	U
78-93-3	2-Butanone (MEK)	23	U
75-15-0	Carbon disulfide	5.6	U
56-23-5	Carbon tetrachloride	5.6	U
108-90-7	Chlorobenzene	8.0	U
75-00-3	Chloroethane	11	U
67-66-3	Chloroform	5.6	U
74-87-3	Chloromethane	11	U
126-99-8	Chloroprene	5.6	U
124-48-1	Dibromochloromethane	5.6	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
106-93-4	1,2-Dibromoethane (EDB)	5.6	U
74-95-3	Dibromomethane	5.6	U
110-57-6	trans-1,4-Dichloro-2-butene	5.6	U
75-71-8	Dichlorodifluoromethane	11	U
75-34-3	1,1-Dichloroethane	5.6	U
107-06-2	1,2-Dichloroethane	5.6	U
75-35-4	1,1-Dichloroethene	5.6	U
156-60-5	trans-1,2-Dichloroethene	2.8	U
78-87-5	1,2-Dichloropropane	5.6	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) 80

Lab Sample ID:AOK040131 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5.4 / g

Date Received: 11/04/00

Work Order: DPDELIAL

Date Extracted: 11/05/00

Dilution factor: 0.92

Date Analyzed: 11/14/00

Moisture t:13

QC Batch: 0319459

Client Sample Id: MR-SD-5-315

CONCENTRATION UNITS:
(ug/L or ug/kg) ug/kg

CAS NO.	COMPOUND		O
67-64-1	Acetone	1300	B
75-05-8	Acetonitrile	5300	U
107-02-8	Acrolein	5300	U
107-13-1	Acrylonitrile	5300	U
71-43-2	Benzene	260	U
75-27-4	Bromodichloromethane	260	U
75-25-2	Bromoform	260	U
74-83-9	Bromomethane	530	U
75-15-0	Carbon disulfide	260	U
56-23-5	Carbon tetrachloride	260	U
108-90-7	Chlorobenzene	3100	
126-99-8	Chloroprene	260	U
124-48-1	Dibromochloromethane	260	U
96-12-8	1,2-Dibromo-3-chloropropane	530	U
75-00-3	Chloroethane	530	U
67-66-3	Chloroform	260	U
74-87-3	Chloromethane	530	U
107-05-1	Allyl chloride	530	U
74-95-3	Dibromomethane	260	U
110-57-6	trans-1,4-Dichloro-2-butene	260	U
75-71-8	Dichlorodifluoromethane	530	U
75-34-3	1,1-Dichloroethane	260	U
107-06-2	1,2-Dichloroethane	260	U
75-35-4	1,1-Dichloroethene	260	U
156-60-5	trans-1,2-Dichloroethene	130	U
78-87-5	1,2-Dichloropropane	260	U
10061-01-5	cis-1,3-Dichloropropene	260	U
10061-02-6	trans-1,3-Dichloropropene	260	U

TETRA TECH KM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0K040131 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5.1 / g

Date Received: 11/04/00

Work Order: DPDEMIAL

Date Extracted: 11/05/00

Dilution factor: 0.98

Date Analyzed: 11/14/00

Moisture t:24

QC Batch: 0319459

Client Sample Id: MR-SD-5-150

CONCENTRATION UNITS:
(ug/L or ug/kg) ug/kg

CAS NO.	COMPOUND		O
67-64-1	Acetone	2500	B
75-05-8	Acetonitrile	6400	U
107-02-8	Acrolein	6400	U
107-13-1	Acrylonitrile	6400	U
71-43-2	Benzene	58	J
75-27-4	Bromodichloromethane	320	U
75-25-2	Bromoform	320	U
74-83-9	Bromomethane	640	U
75-15-0	Carbon disulfide	320	U
56-23-5	Carbon tetrachloride	320	U
108-90-7	Chlorobenzene	6700	
126-99-8	Chloroprene	320	U
124-48-1	Dibromochloromethane	320	U
96-12-8	1,2-Dibromo-3-chloropropane	640	U
75-00-3	Chloroethane	640	U
67-66-3	Chloroform	320	U
74-87-3	Chloromethane	640	U
107-05-1	Allyl chloride	640	U
74-95-3	Dibromomethane	320	U
110-57-6	trans-1,4-Dichloro-2-butene	320	U
75-71-8	Dichlorodifluoromethane	640	U
75-34-3	1,1-Dichloroethane	320	U
107-06-2	1,2-Dichloroethane	320	U
75-35-4	1,1-Dichloroethene	320	U
156-60-5	trans-1,2-Dichloroethene	160	U
78-87-5	1,2-Dichloropropane	320	U
10061-01-5	cis-1,3-Dichloropropene	320	U
10061-02-6	trans-1,3-Dichloropropene	320	U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0K040131 008

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5.4 / g

Date Received: 11/04/00

Work Order: DPDEQ1AL

Date Extracted: 11/05/00

Dilution factor: 0.92

Date Analyzed: 11/14/00

Moisture t:15

QC Batch: 0319459

Client Sample Id: MR-SD-7-150

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	1600		B
75-05-8	Acetonitrile	5400		U
107-02-8	Acrolein	5400		U
107-13-1	Acrylonitrile	5400		U
71-43-2	Benzene	36		J
75-27-4	Bromodichloromethane	270		U
75-25-2	Bromoform	270		U
74-83-9	Bromomethane	540		U
75-15-0	Carbon disulfide	270		U
56-23-5	Carbon tetrachloride	270		U
108-90-7	Chlorobenzene	1600		
126-99-8	Chloroprene	270		U
124-48-1	Dibromochloromethane	270		U
96-12-8	1,2-Dibromo-3-chloropropane	540		U
75-00-3	Chloroethane	540		U
67-66-3	Chloroform	270		U
74-87-3	Chloromethane	540		U
107-05-1	Allyl chloride	540		U
74-95-3	Dibromomethane	270		U
110-57-6	trans-1,4-Dichloro-2-butene	270		U
75-71-8	Dichlorodifluoromethane	540		U
75-34-3	1,1-Dichloroethane	270		U
107-06-2	1,2-Dichloroethane	270		U
75-35-4	1,1-Dichloroethene	270		U
156-60-5	trans-1,2-Dichloroethene	140		U
78-87-5	1,2-Dichloropropane	270		U
10061-01-5	cis-1,3-Dichloropropene	270		U
10061-02-6	trans-1,3-Dichloropropene	270		U

TETRA TECH EM INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0K040131 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.2 / g

Date Received: 11/04/00

Work Order: DPDEM1AD

Date Extracted: 11/07/00

Dilution factor: 1

Date Analyzed: 11/21/00

Moisture %:24

QC Batch: 0312099

Client Sample Id: MR-SD-5-150

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
132-64-9	Dibenzofuran	430		U
84-74-2	Di-n-butyl phthalate	430		U
95-50-1	1,2-Dichlorobenzene	430		U
541-73-1	1,3-Dichlorobenzene	430		U
106-46-7	1,4-Dichlorobenzene	1700		
91-94-1	3,3'-Dichlorobenzidine	2100		U
120-83-2	2,4-Dichlorophenol	430		U
87-65-0	2,6-Dichlorophenol	430		U
84-66-2	Diethyl phthalate	430		U
297-97-2	Thionazin	2100		U
60-51-5	Dimethoate	860		U
60-11-7	p-Dimethylaminoazobenzene	860		U
57-97-6	7,12-Dimethylbenz(a)anthracene	860		U
119-93-7	3,3'-Dimethylbenzidine	2100		U
105-67-9	2,4-Dimethylphenol	430		U
131-11-3	Dimethyl phthalate	430		U
117-84-0	Di-n-octyl phthalate	430		U
99-65-0	1,3-Dinitrobenzene	430		U
534-52-1	4,6-Dinitro-2-methylphenol	2100		U
51-28-5	2,4-Dinitrophenol	2100		U
121-14-2	2,4-Dinitrotoluene	430		U
506-20-2	2,6-Dinitrotoluene	430		U
88-85-7	2-sec-Butyl-4,6-dinitropheno	860		U
122-39-4	Diphenylamine	430		U
298-04-4	Disulfoton	2100		U
62-50-0	Ethyl methanesulfonate	430		U
52-85-7	Famphur	4300		U
206-44-0	Fluoranthene	430		U